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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 227 Seconds
(without alignments)
8623.403 Million cell updates/sec

Title: US-09-989-920-100

Perfect score: 2754

Sequence: 1 gccagaagcagcctcagctt.....aaaaataaaaagatggggcc 2754

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match, Length, DB ID, Description. Contains 27 rows of search results.

ALIGNMENTS

RESULT 1
US-09-232-160-3
; Sequence 3, Application US/09232160
; Patent No. 6368794
; GENERAL INFORMATION:
; APPLICANT: Steve Daniel
; APPLICANT: James Gilmore
; APPLICANT: Susan G. Stuart
; APPLICANT: Laura Stuve
; TITLE OF INVENTION: DETECTION OF ALTERED EXPRESSION OF GENES REGULATING CELL
; FILE OF INVENTION: PROLIFERATION
; FILE REFERENCE: PA-0003 US
; CURRENT APPLICATION NUMBER: US/09/232,160
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 1853
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 1283330
US-09-232-160-3

Query Match 63.5%; Score 1747.6; DB 3; Length 1853;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1750; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 994 TGTTCCTCCCAATCAATAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 1113
Db 1 TGTTCCTCCCAATCAATAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 120
QY 1054 AAATATGTACTCAATAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 1113
Db 61 AAATATGTACTCAATAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 120
QY 1114 TTGCTTTTACGCCAACATAAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 1173
Db 121 TTGCTTTTACGCCAACATAAATTTGGATTTTATCAATTTTAAATAATTTGGAAATTTGT 180
QY 1174 ACCGCTAGCCGTTACAGAAAAGCTGCTGACTACTGAGCCAGCCCTCCATTACCTCC 1233
Db 181 ACCGCTAGCCGTTACAGAAAAGCTGCTGACTACTGAGCCAGCCCTCCATTACCTCC 240
QY 1234 ATCCCTGTTGGATTTTAAAGAAAAGCCCTCAGACAGTAAGGGCTTTTTTAAAGAAATAA 1293
Db 241 ATCCCTGTTGGATTTTAAAGAAAAGCCCTCAGACAGTAAGGGCTTTTTTAAAGAAATAA 300
QY 1294 ATGACTTGTGTTCCGCTTGGAAAGCCAGCAATTCAGATGAGGGTTTCGCAATTAC 1353
Db 11909, A

301 ATGACTGGTGTTCGGCTTGAAGCAGGGGAGCAATTCAGATGAGCGGTTTCTGCAATTAAC 360
 1354 CCTGCTATACAGCATCTGCTGCTGTGTGCTGTGGAGCCCGCTTGAAGGTTCTGG 1413
 361 CCTGCTATACAGCATCTGCTGCTGTGTGCTGTGGAGCCCGCTTGAAGGTTCTGG 420
 1414 TGCTTCAGCTGGCTTCTGAGAGTCCACCCCGCTGTGTGGAAATGACAGAGCCCTTTG 1473
 421 TGCTTCAGCTGGCTTCTGAGAGTCCACCCCGCTGTGTGGAAATGACAGAGCCCTTTG 480
 1474 CTTCCTTCTTTCGCGCTTCCTGCTGTGTGGAAATGACAGAGCCCTTTGCTGCATC 1533
 481 CTTCCTTCTTTCGCGCTTCCTGCTGTGTGGAAATGACAGAGCCCTTTGCTGCATC 540
 1534 CCTTGGCCAGGTCCTCAGGCTGTGATGCTGAGAGGACTTTGAGCAAGTGGTGGGAGC 1593
 541 CCTTGGCCAGGTCCTCAGGCTGTGATGCTGAGAGGACTTTGAGCAAGTGGTGGGAGC 600
 1594 AGTGGCTTCTTGGCCAGTCCACTTCTGCTGTGGAGGGGAGCCTGATCTCACCTCCA 1653
 601 AGTGGCTTCTTGGCCAGTCCACTTCTGCTGTGGAGGGGAGCCTGATCTCACCTCCA 660
 1654 CCTAGTACTTTGGGACTGAGGACTTTGGCTTCTTGGAGCTGCAAGCTTCTCCCA 1713
 661 CCTAGTACTTTGGGACTGAGGACTTTGGCTTCTTGGAGCTGCAAGCTTCTCCCA 720
 1714 TGTGTCCAGCTGCTTCTTCTCTCAAAAGGGGACTGCTCAAGTGGCTCAGCTTGGTGG 1773
 721 TGTGTCCAGCTGCTTCTTCTCTCAAAAGGGGACTGCTCAAGTGGCTCAGCTTGGTGG 780
 1774 TTTTGG 1833
 781 TTTTGG 840
 1834 TGCCATTTGGAGGATGGAGGCTCAATGGAAGAGTCCACGGGAGTGGTCCGAGGT 1893
 841 TGCCATTTGGAGGATGGAGGCTCAATGGAAGAGTCCACGGGAGTGGTCCGAGGT 900
 1894 CCGGCTGTGGCCATCCAGCCCTTGTGCTGTCCAGCTTGTGACCCCTGTGCTGTCCT 1953
 901 CCGGCTGTGGCCATCCAGCCCTTGTGCTGTCCAGCTTGTGACCCCTGTGCTGTCCT 960
 1954 CACTCCAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2013
 961 CACTCCAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1020
 2014 GCAGCTGGGGTAAAGGCTAGGCTTGTGTGTGCTGTGGCAATTTGCTAGCTTCACTCCA 2073
 1021 GCAGCTGGGGTAAAGGCTAGGCTTGTGTGTGCTGTGGCAATTTGCTAGCTTCACTCCA 1080
 2074 TCCCTCCCTAAAGCAATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2133
 1081 TCCCTCCCTAAAGCAATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1140
 2134 GTTAGATGGGGCCAGGCTCCAGCTTCTGATGGCCGAGGAGGAGGAGGAGGAGGAGGAGG 2193
 1141 GTTAGATGGGGCCAGGCTCCAGCTTCTGATGGCCGAGGAGGAGGAGGAGGAGGAGGAGG 1200
 2194 TGTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCAGATAGGTCGGGACAAGTCTTTT 2253
 1201 TGTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCAGATAGGTCGGGACAAGTCTTTT 1260
 2254 TGTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCAGATAGGTCGGGACAAGTCTTTT 2313
 1261 TGTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCAGATAGGTCGGGACAAGTCTTTT 1320
 2314 AAGCTTTTGG 2373
 1321 AAGCTTTTGG 1380
 2374 TCTCAGCTCCCGTGGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2433
 1381 TCTCAGCTCCCGTGGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1440

2434 TTAATAAGATTTCTTCTAAGATGTAACCCACACCTTTCTCCAGATTTGGGTGACTCT 2493
 1441 TTAATAAGATTTCTTCTAAGATGTAACCCACACCTTTCTCCAGATTTGGGTGACTCT 1500
 2494 TTTTAAAGGTGGTGGAGTATCTCTCGGGGTGFTGTGGCCCTTGGATGGGFCAGGTTG 2553
 1501 TTTTAAAGGTGGTGGAGTATCTCTCGGGGTGFTGTGGCCCTTGGATGGGFCAGGTTG 1560
 2554 TCTGAGAGTCTGTGGAGTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGG 2613
 1561 TCTGAGAGTCTGTGGAGTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTTGGG 1620
 2614 TACCTGAATAAAGCATATTTTGCATTTGTTACTGTACCATAGTGGGAGGAGTCTG 2673
 1621 TACCTGAATAAAGCATATTTTGCATTTGTTACTGTACCATAGTGGGAGGAGTCTG 1680
 2674 TATGTGGATCTGTGCTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2733
 1681 TATGTGGATCTGTGCTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1740
 2734 AAAAAATAAAGA 2747
 1741 AAAAAATAAAGA 1754

RESULT 2
 US-08-232-463-14
 ; Sequence 14, Application US/08232463
 ; Patent No 5670367
 ; GENERAL INFORMATION:
 ; APPLICANT: DORNER, F.
 ; APPLICANT: SCHEIFLINGER, F.
 ; APPLICANT: FALKNER, F. G.
 ; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
 ; NUMBER OF SEQUENCES: 52
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Foley & Lardner
 ; STREET: 1900 Diagonal Road, Suite 500
 ; CITY: Alexandria
 ; STATE: VA
 ; COUNTRY: USA
 ; ZIP: 22313-0299
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/232,463
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/935,313
 ; FILING DATE:
 ; APPLICATION NUMBER: EP 91 114 300.6
 ; FILING DATE: 26-AUG-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BENT, Stephen A.
 ; REGISTRATION NUMBER: 29,768
 ; REFERENCE/DOCKET NUMBER: 30472/114 IMM
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703)836-9300
 ; TELEFAX: (703)683-4109
 ; TELEX: 899149
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 7218 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; IMMEDIATE SOURCE:
 ; CLONE: pTZpt-F15

US-08-232-463-14

Query Match 1.8%; Score 52; DB 1; Length 7218; Best Local Similarity 12.2%; Pred. No. 0.00018; Matches 61; Conservative 213; Mismatches 228; Indels 0; Gaps 0;

QY 1276 CTTTTTAAAGAAATAAATGACTTGGTTTCCGCTTGGAGCAGGGAAGCAATTCAGATG 1335
Db 1005 CGTTGGCATAAGCTCACAAATAATCCGAGCTTGGCTGCAGGTCGAGGAGCTTGGG 1064
QY 1336 AGCGTTTTCGATTAACCCCTGCATACGCATCICGTCTGCTGCTGGCTGGCAGCC 1395
Db 1065 ATYY 1124
QY 1396 CCCCTGGAAAGTTCTCGCTTCCAGCTGCTCCTGCAGAGTCCACCCCGCTCGTGGTG 1455
Db 1125 YYY 1184
QY 1456 GGAATGAGAGCCCTTGGCTTCTTCTGCGCCCTCCTGCTTCCCTGGGAGCCCGCT 1515
Db 1185 YYY 1244
QY 1516 GGGCTTTGGTCTGCATCCCTGCAGCTCCCTCAGGTTGATCGTGGAAGGACTT 1575
Db 1245 YYY 1304
QY 1576 TGACAGTGTGGCAGCAGCTGCTCCTGCCAGCTCACACTTCTGCTGGAGGGCC 1635
Db 1305 YYY 1364
QY 1636 AGCTGATCACCCTCCAGCTAGTACCTTGGGACTGAGGACCTTGGCTTCTCTGGAG 1695
Db 1365 YYY 1424
QY 1696 CCTGCAAGCTTCTCCAGCTGTCAGCTGCTCTCTCCTGCTACAAAGGGAGCTCACA 1755
Db 1425 YYYYYYYYYYGTACAAATCTCTACTCTTAACTACTGCAATAGTAAATACA 1484
QY 1756 GTGCCCTCAGCTGGTGT 1777
Db 1485 GTGATGCTACATCCCGTTTTT 1506

RESULT 3

US-09-880-427-2
; Sequence 2, Application US/09880427
; Patent No. 6358728
; GENERAL INFORMATION:
; APPLICANT: Simon, Andras
; APPLICANT: Eriksson, Ulf
; APPLICANT: Dryja, Thaddeus P.
; APPLICANT: Beison, Eliot
; APPLICANT: Yamamoto, Hiroyuji
; TITLE OF INVENTION: Mutations in Nucleic Acid Molecules Encoding 11-Cis Retinol
; FILE REFERENCE: LUD 5601
; CURRENT APPLICATION NUMBER: US/09/880,427
; PRIORITY FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 09/306,538
; NUMBER OF SEQ ID NOS: 5
; SEQ ID NO 2
; LENGTH: 6330
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: unsure
; OTHER INFORMATION: nucleotide not determined
US-09-880-427-2

Query Match 1.8%; Score 49; DB 3; Length 6330; Best Local Similarity 56.5%; Pred. No. 0.0013;

Matches 91; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 1061 TACTCAATTTATTTGTTGATTTTGGATTTTATCAATTTAAAAATTTGGAAATTTGTTGCTCT 1120
Db 4714 TACAAGCTGATAAATGGTTTTTTTTTAAATTTAAATTTGTTTAAATTTGTTTAAATTTAAG 4773
QY 1121 TACGCCACATAATTAATTTGCTTGTGCTCTGAAAGCCCAAAATTTTACCCTCT 1180
Db 4774 TACCTGATAATATCAATTAATTTTGTCTGCTGCAATGCTTAAATATTAATTAATCTCT 4833
QY 1181 AGCCCGTTACAGAAAAGTCTGCTGACTACTGAGCCAGACC 1221
Db 4834 GGCCTTTAAGAAAAAAGCGTGCACCCCTGCTAGATC 4874

RESULT 4

US-09-306-538B-2
; Sequence 2, Application US/09306538B
; Patent No. 6372463
; GENERAL INFORMATION:
; APPLICANT: Simon, Andras
; APPLICANT: Eriksson, Ulf
; APPLICANT: Dryja, Thaddeus P.
; APPLICANT: Beison, Eliot
; APPLICANT: Yamamoto, Hiroyuji
; TITLE OF INVENTION: Mutations in Nucleic Acid Molecules Encoding 11-Cis Retinol
; FILE REFERENCE: LUD 5601
; CURRENT APPLICATION NUMBER: US/09/306,538B
; CURRENT FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 5
; SEQ ID NO 2
; LENGTH: 6330
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: unsure
; LOCATION: 5357, 5448
; OTHER INFORMATION: nucleotide not determined
US-09-306-538B-2

Query Match 1.8%; Score 49; DB 3; Length 6330; Best Local Similarity 56.5%; Pred. No. 0.0013; Matches 91; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 1061 TACTCAATTTATTTGTTGATTTTGGATTTTATCAATTTAAAAATTTGGAAATTTGTTGCTCT 1120
Db 4714 TACAAGCTGATAAATGGTTTTTTTTTAAATTTAAATTTGTTTAAATTTAAG 4773
QY 1121 TACGCCACATAATTAATTTGCTTGTGCTCTGAAAGCCCAAAATTTTACCCTCT 1180
Db 4774 TACCTGATAATATCAATTAATTTTGTCTGCTGCAATGCTTAAATATTAATTAATCTCT 4833
QY 1181 AGCCCGTTACAGAAAAGTCTGCTGACTACTGAGCCAGACC 1221
Db 4834 GGCCTTTAAGAAAAAAGCGTGCACCCCTGCTAGATC 4874

RESULT 5

US-09-740-028A-3
; Sequence 3, Application US/09740028A
; Patent No. 6410289
; GENERAL INFORMATION:
; APPLICANT: GONG, Fangcheng et al
; TITLE OF INVENTION: ISOLATED HUMAN DEHYDROGENASES, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING THESE HUMAN DEHYDROGENASES, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001054
; CURRENT APPLICATION NUMBER: US/09/740,028A
; CURRENT FILING DATE: 2000-12-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3


```

Db 390593 T 390593
RESULT 9
US-09-248-796A-12137
; Sequence 12137, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 12137
; LENGTH: 210
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-12137
Query Match 1.5%; Score 41.6; DB 4; Length 210;
Best Local Similarity 67.0%; Pred. No. 0.018;
Matches 59; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
Qy 1011 CAAAAAATAATCTTTATTTTAGTAGACATGTAATTTACCAAAAATATGACTCAATTA 1070
Db 32 CAGAAAAAATAATCAAAATTTTAAATCCACATGGTTTTTAAAGAAAAAGAAAAATCTCAATA 91
Qy 1071 TTGATTTTGGATTTTATCAATTTAARA 1098
Db 92 TTGCATTTCTTTCACAACTAATAAACA 119
RESULT 10
US-09-513-999C-10733/c
; Sequence 10733, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 10733
; LENGTH: 329
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-10733
Query Match 1.5%; Score 41.4; DB 4; Length 329;
Best Local Similarity 62.6%; Pred. No. 0.03;
Matches 82; Conservative 0; Mismatches 46; Indels 3; Gaps 1;
Qy 1044 TATTTACCAAAAATAATGACTCAATTTATTTGGATTTTATCAATTTTAAAAATGT 1103
Db 323 TGTATCACAAAATAATCAAGTATTAATAATTTTGAATTTTATCAATAAATAATATGT 264
Qy 1104 GGAATTTG---TTTGCCTTACGCCACATAATATGATTTTGCCTTTGGCTCTGAA 1160
Db 263 GAAAATTTTTCATTTCTAATAATAATAAAGGCTCAATTTTGCCTTTGGCTCACAAA 204

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Qy 1161 GCCCAAAATAT 1171
Db 203 GCCTAAACTTT 193
RESULT 11
US-09-513-999C-11322/c
; Sequence 11322, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 11322
; LENGTH: 318
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 16
; OTHER INFORMATION: x-a or g
US-09-513-999C-11322
Query Match 1.5%; Score 40.8; DB 4; Length 318;
Best Local Similarity 52.3%; Pred. No. 0.044;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;
Qy 750 ACTGGGAACCTCTCTCATGCCCTTCCTGAGGAGCCCTGAGGTGGCAGCAGGGCC 809
Db 201 ACTGAGAAGCTCGGCCGACGAGCGGGGCTCGGGGGCCGACAGGCGCCAGTGGGCA 142
Qy 810 AGGGGAAGTTTTTCAGGCTTATCAAAAGAGAACAATCTCAGCTCCGCCACCCCTCATC 869
Db 141 GAGGCTATTCTCAGACACCGGAGATCCATCTCCTCACTCCATCTCCGCCACCCCTCCTC 82
Qy 870 CTGTATCAGCACTTACCGGTGTGACTGCCCTTCTCAGCTAGCATAGGTTG 921
Db 81 CTTCGTGCTCCCGGGGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30
RESULT 12
US-09-513-999C-23077
; Sequence 23077, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 23077
; LENGTH: 398
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 144

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OTHER INFORMATION: n=a, g, c or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 145
OTHER INFORMATION: m=a or c
US-09-513-999C-23077

Query Match 1.5%; Score 40.8; DB 4; Length 398;
Best Local Similarity 63.0%; Pred. No. 0.052; 37; Indels 0; Gaps 0;
Matches 63; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
QY 1131 TRAYATGATTTGGCTCTGCTGCTGAAGCCCAAAATATTTACCGCTAGCCCGTTC 1190
DB 197 TAGTTATGACAGAACCTCTATGGCACAAGTTTAAATAATTTACTATCTTGTATTAC 256
QY 1191 AGAAAAAGTCTGCTGACTACTGAGCCGAGCCACCTCCCAATACC 1230
DB 257 AGAAATAATTTGCTGACTTCTGCTCCCTACGAAACAATAGC 296

RESULT 13
US-09-806-708B-22
Sequence 22, Application US/09806708B
Patent No. 6784342
GENERAL INFORMATION:
APPLICANT: The University of British Columbia
TITLE OF INVENTION: Regulation of Embryonic Transcription in Plants
FILE REFERENCE: 4810-58741
CURRENT APPLICATION NUMBER: US/09/806,708B
CURRENT FILING DATE: 2001-04-03
PRIOR FILING DATE: US 60/147,133
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.0
SEQ ID NO 22
LENGTH: 1141
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
NAME/KEY: promoter
LOCATION: (1)..(1141)
OTHER INFORMATION: consensus sequence of A.t., L.a., and B.n. FAEl promoters
US-09-806-708B-22

Query Match 1.5%; Score 40.4; DB 4; Length 1141;
Best Local Similarity 9.4%; Pred.No. 0.15; Mismatches 167; Indels 0; Gaps 0;
Matches 35; Conservative 167; Mismatches 169; Indels 0; Gaps 0;
QY 965 AGGAATAATTATCTTTGAAACCAATGAAGTGTCTTCCCGCATCAAAAAAAAATT 1024
DB 53 MSKRKTWARMYKYRWRNKRKWKWKWKYKWKYKWCANTSRBYHARKWKDKTAYEM 112
QY 1025 CTATTATTGATGATGATATACCAAAAATGACTCAATGATTGATTGGATT 1084
DB 113 TMINKWKGTGRHRFYRWRAMBEDVDEHYVTAMNNAWTTWCMDDKDRTRWWWKNNNA 172
QY 1085 TTATCAATTTAAAAATGCGAATTTGTTGCTCTTACGGCAACATAATTGATTG 1144
DB 173 TGWDDDYKXHMNNNGEFTVVMVYKTDREDSBKRMNVMWVWVWVWVWDD 232
QY 1145 CCTTGTGCTGTAAGCCCAAAAATTTACCGCTGCTAGCCCGTACAGAAAAGTCTGCT 1204
DB 233 MCKRKYRWRTRGRMRYVWVWVWVWTAHRRNNGSWGWTBAMAYRRTWNNNNNAKMKKRA 292
QY 1205 GACTACTGAGCCAGACTCCATACCTCCATCCCTGTTGGATTATTAAGAAGCCTCA 1264
DB 293 KYGWRABVNSTCTTWSKTTKRTVSCWANCRAGDANKDKKWKWSAMGVWVNNNN 352
QY 1265 GACAGTAAAGGCTTTTTTAAAGAAATAAAAATGACTTGTGTGGTGGAAAGCAGGGAA 1324
DB 353 NNWYKARBARWDMVHWSAKKWHANAHAHSYKRWBYKRWKTMVNNNGTMMKRWMA 412
QY 1325 GCATTCAGATG 1335

DB 413 WYWKMDMDWBG 423
RESULT 14
US-09-790-988-1
Sequence 1, Application US/09790988
Patent No. 6632935
GENERAL INFORMATION:
APPLICANT: SHIGENOBU, SHUJI
APPLICANT: WATANABE, HIDEMI
APPLICANT: HAITORI, MASAHIRA
APPLICANT: SAKAKI, YOSHIYUKI
TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
FILE REFERENCE: 081356/0159
CURRENT APPLICATION NUMBER: US/09/790,988
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: JP2000-107160
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 640681
TYPE: DNA
ORGANISM: Buchnera sp.
US-09-790-988-1
Query Match 1.5%; Score 40.4; DB 4; Length 640681;
Best Local Similarity 53.9%; Pred. No. 17;
Matches 83; Conservative 0; Mismatches 71; Indels 0; Gaps 0;
QY 980 TGAACCCCAATGAAGTGTCTTCCCGCATCAAAAAAAAATTTCCTTTGTTG 1039
DB 473336 TTAATAATAATCAATATTTCCTTTTCAATTAATAATTCATTTCAATTA 473395
QY 1040 CATGTATTTACAAAAATGATGACTCAATTTGTTGATTGTTGGATTTCATTTAAAA 1099
DB 473396 TAAAGTGTCTTAAATATGAAATATTTTAAAAATTACATTTAACAAATTAGAA 473455
QY 1100 TGTGGAATTTGTTGCTCTTATCCCGCAACATAA 1133
DB 473456 TCAATAAATAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 473489

RESULT 15
US-09-248-796A-8906/c
Sequence 8906, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 8906
LENGTH: 1107
TYPE: DNA
ORGANISM: Candida albicans
US-09-248-796A-8906
Query Match 1.4%; Score 39.6; DB 4; Length 1107;
Best Local Similarity 52.4%; Pred. No. 0.26;
Matches 87; Conservative 0; Mismatches 79; Indels 0; Gaps 0;
QY 975 ATCTTTGAACCAATGAAGTGTCTTCCCGCATCAAAAAAAAATTTCCTTTT 1034
DB 218 ATTCTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 159

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 8386 Seconds
(without alignments)
11966.971 Million cell updates/sec

Title: US-09-989-920-100
Perfect score: 2754
Sequence: 1 gccagaagagcctcagctt.....aaaaataaaaagatcgggcc 2754

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues
Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_hcc:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_gssi:*
9: gb_gssi2:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match %, Length, DB ID, Description. Contains 24 rows of search results.

Table with columns: 25, 481, 17.5, 493, 5, BC020554, Homo sapiens, clone IMAGE:3049181, mRNA, linear, HTC 04-MAR-2003. Contains 24 rows of sequence data.

ALIGNMENTS

RESULT 1
BC020554
LOCUS BC020554 3408 bp mRNA linear HTC 04-MAR-2003
DEFINITION Homo sapiens, clone IMAGE:3049181, mRNA.
ACCESSION BC020554
VERSION BC020554.1 GI:18088242
KEYWORDS HTC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 3408)
AUTHORS Strausberg,R.
TITLE Direct Submission
JOURNAL Submitted (03-JAN-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgapbs@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: http://www-shgc.stanford.edu
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILNL at: http://image.llnl.gov
Series: IRAK Plate: 20 Row: a Column: 5
This clone has the following problem: retained intron.
Location/Qualifiers
1. 3408
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3049181"
/tissue_type="Placenta, choriocarcinoma"
/clone_lib="NIH MGC_10"
/lab_host="DH10B"
/note="Vector: PCMV-SPORT6"

FEATURES

source
1. 3408
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3049181"
/tissue_type="Placenta, choriocarcinoma"
/clone_lib="NIH MGC_10"
/lab_host="DH10B"
/note="Vector: PCMV-SPORT6"

ORIGIN

Db 2771 CACTAGCCAGTTTTCAGGAAGTCACTGGGAGTTAGATGGGGCCAGGGTCCACAGC 2830
 Qy 2161 TACTGATGGCCGAGCCAGGTTGAGCTTCTGTTGCCAGTCCCGATCCCACTTGAGAT 2220
 Db 2831 TACTGATGGCCGAGCCAGGTTGAGCTTCTGTTGCCAGTCCCGATCCCACTTGAGAT 2890
 Qy 2221 CTATGCTCAGATAGTGGGCAAGTCTTTTGTCCACAGTGTGGCTCTGCTCCAGG 2280
 Db 2891 CTATGCTCAGATAGTGGGCAAGTCTTTTGTCCACAGTGTGGCTCTGCTCCAGG 2950
 Qy 2281 CCTCATTTGGCTGGTGGTGGTCTGTGGGAAAGCTTTGGGGGGTTCCTGGTTAAC 2340
 Db 2951 CCTCATTTGGCTGGTGGTGGTCTGTGGGAAAGCTTTGGGGGGTTCCTGGTTAAC 3010
 Qy 2341 CACAGAGAGAGGGGACTGTTGGGGTGGCTCTCTGACAGCTCCCGTCTGCTGGAA 2400
 Db 3011 CACAGAGAGAGGGGACTGTTGGGGTGGCTCTCTGACAGCTCCCGTCTGCTGGAA 3070
 Qy 2401 GCACGGTACTGTTCTTAATGTTTCATGATTTAAATGATTTCTTTCTAAAGATGA 2460
 Db 3071 GCACGGTACTGTTCTTAATGTTTCATGATTTAAATGATTTCTTTCTAAAGATGA 3130
 Qy 2461 ACCTCCACACTTCTCCAGATGGGTGACTCTTTTCTAAAGTGGTGGAGTATCTGTC 2520
 Db 3131 ACCTCCACACTTCTCCAGATGGGTGACTCTTTTCTAAAGTGGTGGAGTATCTGTC 3190
 Qy 2521 GGGTGGTGGTGGCCCTTGGATGGTCCAGTGGGTGAGAGTCCCTGGGGAGTGGGGCT 2580
 Db 3191 GGGTGGTGGTGGCCCTTGGATGGTCCAGTGGGTGAGAGTCCCTGGGGAGTGGGGCT 3250
 Qy 2581 TGAGCTCAAGTGTGCTTACTGCTATGTTTTGTTGACTGCTGAAATGAAGCAATTTTGCAC 2640
 Db 3251 TGAGCTCAAGTGTGCTTACTGCTATGTTTTGTTGACTGCTGAAATGAAGCAATTTTGCAC 3310
 Qy 2641 TGTTACTGTACCTAGTGGGACGAGAGTCTGATGTTGGGATCTGCTGGGTAGAA 2700
 Db 3311 TGTTACTGTACCTAGTGGGACGAGAGTCTGATGTTGGGATCTGCTGGGTAGAA 3370
 Qy 2701 TGCAATAAACAACCTACATTTGTAAGAAAAAATAAAAAA 2738
 Db 3371 TGCAATAAACAACCTACATTTGTAAGAAAAAATAAAAAA 3408

RESULT 2
 CD512690
 LOCUS
 DEFINITION AGENCCOURT 14360615 NIH MGC 186 Homo sapiens cDNA clone
 IMAGE:30406456 5', mRNA sequence.
 ACCESSION CD512690
 VERSION CD512690.1 GI:31444408
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE NIH-MGC <http://mgi.nci.nih.gov/>
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg 31 Rm10A07 Bethesda, MD 20892
 Email: dsgerhbs-remail.nih.gov
 Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palkovits
 cDNA Library Preparation: CLONTECH Laboratories, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LML)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LML at:
<http://image.llnl.gov>
 Plate: NDCM195 row: d column: 17
 High quality sequence stop: 509.

FEATURES
source

1..747
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:30406456"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NIH MGC 186"
 /note="Organ: Pooled-Skin; Vector: pDNR-LIB; Site 1: Sfil (ggccatcggcc); Site 2: Sfil (ggccgctcggcc); Library is oligo-dT primed and directionally cloned. cDNA was prepared from a pooled samples of tissues from Skin, meninges, duramatter, pia matter and choroid plexus. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-ATTCTAGAGGGGGGGGGGGGACATG-dT(30)AN-3' (where B = A, C, G or T); Average insert size 1.47 kb (range 0.50-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library"

ORIGIN

Query Match 25.1%; Score 692; DB 6; Length 747;
 Best Local Similarity 98.5%; Pred. No. 8.3e-171;
 Matches 709; Conservative 0; Mismatches 10; Indels 1; Gaps 1;

Qy 1842 GAGGATGACAGCCCTCAATGGAAGAGTCCACCGGAGATGGTCCGAGTCCCGGCTGT 1901
 Db 1 GGGGATGACAGCCCTCAATGGAAGAGTCCACCGGAGATGGTCCGAGTCCCGGCTGT 60
 Qy 1902 GGCCATCCAGCCCCCTGTGGCTTGTCCAGCTCTGTGCAACCCCTGCTTCTCACTCCAG 1961
 Db 61 GGCCATCCAGCCCCCTGTGGCTTGTCCAGCTCTGTGCAACCCCTGCTTCTCACTCCAG 120
 Qy 1962 GGGCAGACAGCAGCACTGCAGTTCCTTCTTCCGAGTAAACAGTAGTAAAGAGTGG 2021
 Db 121 GGGCAGACAGCAGCAGTGCAGTTCCTTCTTCCGAGTAAACAGTAGTAAAGAGTGG 180
 Qy 2022 GGCTAACAGCTAGGCTTGTGTTCTGGGCAATTTGGTCCAGCTTCTCACTCCAGTCCCTC 2081
 Db 181 GGCTAACAGCTAGGCTTGTGTTCTGGGCAATTTGGTCCAGCTTCTCACTCCAGTCCCTC 240
 Qy 2082 AAAGCAATGGGAGGCCCCCCTAGCCAGTTCCTAGGAAGTCAACTGGGAGTTAGATG 2141
 Db 241 AAAGCAATGGGAGGCCCCCCTAGCCAGTTCCTAGGAAGTCAACTGGGAGTTAGATG 300
 Qy 2142 GGGGCCAGGTCCTCCACAGCTACTGATGCCGAGCCAGTTCAGCTTCTGCTGTCACAGT 2201
 Db 301 GGGGCCAGGTCCTCCACAGCTACTGATGCCGAGCCAGTTCAGCTTCTGCTGTCACAGT 360
 Qy 2202 CCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTCTTTTGTCCAG 2261
 Db 361 CCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTCTTTTGTCCAG 420
 Qy 2262 TCGTGGCTCTGCTGGGCTCATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2321
 Db 421 TCGTGGCTCTGCTGGGCTCATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 480
 Qy 2322 CCGGGCTTCTGTTGGTTAACACAGAAAGAGAGGGGACTGTTTGGGGTGGCTCTCTGCAGC 2381
 Db 481 CCGGGCTTCTGTTGGTTAACACAGAAAGAGAGGGGACTGTTTGGGGTGGCTCTCTGCAGC 540
 Qy 2382 CTCCTGGTCTGGTGGGAGCAGCGTTACTGTGTTCTTAATGTTCAATGTTAAATG 2441
 Db 541 CTCCTGGTCTGGTGGGAGCAGCGTTACTGTGTTCTTAATGTTCAATGTTAAATG 600
 Qy 2442 ATTTCTTTCTAAAGATGTAACCTCCACACCTTCTCCAGATGGGTTGACTCTTTTCTAAA 2501
 Db 601 ATTTCTTTCTAAAGATGTAACCTCCACACCTTCTCCAGATGGGTTGACTCTTTTCTAAA 660
 Qy 2502 GGTGGTGGAGTATCTGTGGGGTGGTGGG-CCCTGGATGGGTCAGGTGGTGGTGGAG 2560

Db 661 GGGGTGGGAGTACTGTGGGGTGGTGGCCCTTGGATGGGTTCAAGTGGGGTGTGA 720

RESULT 3
 CB242367/c 766 bp mRNA linear EST 12-FEB-2003
 LOCUS UI-CF-FNO-age-m-22-0-UI.s1 UI-CF-FNO Homo sapiens cDNA clone
 #DEFINITION UI-CF-FNO-age-m-22-0-UI 3', mRNA sequence.
 ACCESSION CB242367.1 GI:28364011
 VERSION EST.
 KEYWORDS Homo sapiens (human)
 #SOURCE
 #ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 #REFERENCE
 1 (Bases 1 to 766)
 Ronaldo, M.F., Lennon, G. and Soares, M.B.
 Normalization and subtraction: two approaches to facilitate gene
 discovery
 #TITLE
 Genome Res. 6 (9), 791-806 (1996)
 #JOURNAL
 97044477
 #MEDLINE
 889548
 #PUBMED
 Contact: McCray, PB
 McCray Lab
 University of Iowa
 2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
 Tel: 319 356 4866
 Fax: 319 356 7171
 Email: paul-mccray@iowa.edu
 Tissue Procurement: Dr. M. J. Welsh, University of Iowa
 cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
 CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Researchers may obtain clones from Research
 Genetics (www.reagen.com) or from Open Biosystems
 (www.openbiosystems.com).
 seq primer: M13 FORWARD
 POLYA=Yes.
 #FEATURES
 Location/Qualifiers
 1..766
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-CF-FNO-age-m-22-0-UI"
 /tissue_type="Human Lung Epithelial cells"
 /lab_hosts="DH10B (Life Technologies) (T1 phage resistant)"
 /clone_lib="UI-CF-FNO"
 /note="Organ: Lung; Vector: pT73-Pac (Pharmacia) with a
 modified polylinker; Site 1: EcoR I; Site 2: Not I;
 UI-CF-FNO is a subtracted cDNA library derived from two
 DUI) The library was subtracted according to according to
 Ronaldo, Lennon and Soares, Genome Research, 6:791-806,
 1996. For additional information, contact:
 bento-soares@iowa.edu
 TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
 6hr to LPS 24h
 TAG_LIB=UI-CF-FNO
 TAG_SEQ=CTGCTCAGGT#
 #ORIGIN
 Query Match 24.7%; Score 680.4; DB 6; Length 766;
 Best Local Similarity 97.6%; Pred. No. 9,6e-168;
 Matches 723; Conservative 0; Mismatches 12; Indels 6; Gaps 3;
 Qy 1999 GTAACAGTAGATAGCAGTGGGGCTAACAGGCTTAGCGTTTGTCTCGCATTTGGT 2058
 Db 736 GTAACAGTAGATAGCAGTGGG-----CTAACAGTAGCTTGTGTCTCGCATTT- 682
 Qy 2059 CAGCTTCTCAGTATCTCCCTAAAGCAATGGGGAGCCGCCAGTAGCCAGCTTTTCAG 2118
 Db 681 CAGCTTCTCAGTATCTCCCTAAAGCAATGGGG-----GCCGCCAGTACAGTTTTCAG 623

Qy 2119 GAATCRACTGGAGGTTAGATGGGGCCAGGGTCCACAGACTACTGATGCGCCGAGCCA 2178
 Db 622 GAAGTCAAATGGGAGGTTAGATGGGGCCAGGGTCCACAGACTACTGATGCGCCGAGCCA 563
 Qy 2179 GATTGAGCTTCCCTGGTCCAGTCCCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGG 2238
 Db 562 GATTGAGCTTCCCTGGTCCAGTCCCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGG 503
 Qy 2239 TGGGCAAGTTCCTTTTGCACAGTCTGGCTCTGCTTCCAGGCTTCACTGCTGCTGGCT 2298
 Db 502 TGGGCAAGTTCCTTTTGCACAGTCTGGCTCTGCTTCCAGGCTTCACTGCTGCTGGCT 443
 Qy 2299 GTGCTCTGCTGGGAAAAGGTTTGGCGGCTTGTCTTGGTTAAACCAGAGAAGAGGGGAC 2358
 Db 442 GTGCTCTGCTGGGAAAAGGTTTGGCGGCTTGTCTTGGTTAAACCAGAGAAGAGGGGAC 383
 Qy 2359 TGTGTTGGGGTGGCTCTCTGCGAGCTCCCGCTGCTGGGTTGGAAGACGGTTACTGTGTTCT 2418
 Db 382 TGTGTTGGGGTGGCTCTCTGCGAGCTCCCGCTGCTGGGTTGGAAGACGGTTACTGTGTTCT 323
 Qy 2419 CTAATGTTCACTGTTTAAATGATTTCTTCTTAAAGATGTAACCTCCACACCTTTCTCC 2478
 Db 322 CTAATGTTCACTGTTTAAATGATTTCTTCTTAAAGATGTAACCTCCACACCTTTCTCC 263
 Qy 2479 AGATTGGGGTGGCTCTTCTTAAAGTGGTGGGATGTAUCTGCGGGTGGTGGCCCTTG 2538
 Db 262 AGATTGGGGTGGCTCTTCTTAAAGTGGTGGGATGTAUCTGCGGGTGGTGGCCCTTG 203
 Qy 2539 GATGGTCCAGTGGTGGTGGAGGTCCTGGGAGGTTGGCGCTTGAGCTCAAGATTGCTCT 2598
 Db 202 GATGGTCCAGTGGTGGTGGAGGTCCTGGGAGGTTGGCGCTTGAGCTCAAGATTGCTCT 143
 Qy 2599 ACTGCCATGTTTTTGTACTGAAATAAAGCAATATTTTCCACTTGTACTPACCATAGTG 2658
 Db 142 ACTGCCATGTTTTTGTACTGAAATAAAGCAATATTTTCCACTTGTACTPACCATAGTG 83
 Qy 2659 CGGACGAGAGTCTGTATGTGGATCTGTGTTGGTTAGATCAATATAAATCACTCAT 2718
 Db 82 CGGACGAGAGTCTGTATGTGGATCTGTGTTGGTTAGATCAATATAAATCACTCAT 23
 Qy 2719 TTGTAAGAAAATAAAAAAAAAA 2739
 Db 22 TTGTAAGAAAATAAAAAAAAAA 2
 RESULT 4
 BU684754/c 685 bp mRNA linear EST 07-OCT-2002
 LOCUS UI-CF-EN1-acv-d-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
 #DEFINITION UI-CF-EN1-acv-d-09-0-UI 3', mRNA sequence.
 ACCESSION BU684754.1 GI:23538028
 VERSION EST.
 KEYWORDS Homo sapiens (human)
 #SOURCE
 #ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 #REFERENCE
 1 (Bases 1 to 685)
 Ronaldo, M.F., Lennon, G. and Soares, M.B.
 Normalization and subtraction: two approaches to facilitate gene
 discovery
 #TITLE
 Genome Res. 6 (9), 791-806 (1996)
 #JOURNAL
 97044477
 #MEDLINE
 889548
 #PUBMED
 Contact: McCray, PB
 McCray Lab
 University of Iowa
 2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
 Tel: 319 356 4866
 Fax: 319 356 7171
 Email: paul-mccray@iowa.edu
 Tissue Procurement: Dr. M. J. Welsh, University of Iowa

cdNA Library preparation: Dr. M. Bento Soares, University of Iowa
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Researchers may obtain clones from Research
 Genetics (www.resgen.com) or from Open Biosystems
 (www.openbiosystems.com).
 Seq primer: M13 FORWARD
 POLYA=Yes.

FEATURES
 source
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-CF-EN1-acv-d-09-0-UI"
 /tissue_type="Primary Lung Cystic Fibrosis Epithelial
 Cells"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
 /clone_lib="UI-CF-EN1"
 /note="Organ: Lung; Vector: p7T3-Pac (Pharmacia) with a
 modified polylinker; Site 1: EcoR I; Site 2: Not I;
 UI-CF-EN1 is a normalized cDNA library containing the
 following tissue(s): Primary Lung Cystic Fibrosis
 Epithelial Cells. The library was constructed according to
 Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
 1996. First strand cdNA synthesis was primed with an
 oligo-dT primer containing a Not I site. Double stranded
 cdNA was ligated to an EcoR I adaptor, digested with Not
 I, and cloned directionally into p7T3-Pac vector. The
 oligonucleotide used to prime the synthesis of
 first-strand cdNA contains a library tag sequence that is
 located between the Not I site and the (dT)18 tail. The
 sequence tag for this library is CTGCTCAGGT.
 TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
 6hr to LPS 24h
 TAG LIB=UI-CF-EN1
 TAG_SEQ=CTGCTCAGGT"

Query Match 23.8%; Score 655; DB 5; Length 685;
 Best Local Similarity 98.5%; Pred. No. 4.7e-161;
 Matches 669; Conservative 0; Mismatches 9; Indels 1; Gaps 1;

345 AGGACAGGGGTTGAGGCGCAGTGGGCGTGGTGGTGGGCGCCCGCCCTCTGGGACC 404
 |||
 685 AGGNACAGGGGTTGAGGCGCAGTGGGCGTGGTGGTGGGCGCCCGCCCTCTGGGACC 626
 |||
 405 TGCCGAGGGGACCCTGAGAGCTCTGAAACCCCGCCCTAGCTTCCAGACCTTTCTGCAA 464
 |||
 625 TGCCGAGGGGACCCTGAGAGCTCTGAAACCCCGCCCTAGCTTCCAGACCTTTCTGCAA 566
 |||
 465 AAGCTCTCTGGTTCCTCCCTCCCGCCCACTATCGGTACAGCTAACAGATCTGAGG 524
 |||
 565 AAGCTCTCTGGTTCCTCCCTCCCGCCCACTATCGGTACAGCTAACAGATCTGAGG 506
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 525 GCAACTGTGTGCTAGTGGCCAGCGGTGCACCTGCCATCCCGGCTCTGGCCACTTTAGGG 584
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 505 GCAACTGTGTGCTAGTGGCCAGCGGTGCACCTGCCATCCCGGCTCTGGCCACTTTAGGG 446
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 585 CTTCTAGAGCGAGTTCCTTAGGAAGTAGCTCTGAGGCAATGGTTCCTCTCTCTCTGTC 644
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 445 CTTCTAGAGCGAGTTCCTTAGGAAGTAGCTCTGAGGCAATGGTTCCTCTCTCTCTGTC 386
 |||
 645 AGGGCAGCTGATGGGATAAGGTGGGAGGACGGTTCAGTGTCTGGGCCCCAGCTGGGCCAG 704
 |||
 385 AGGGCAGCTGATGGGATAAGGTGGGAGGACGGTTCAGTGTCTGGGCCCCAGCTGGGCCAG 326
 |||
 705 CTGCGCATGGGAAACCAACCTAGTCTCCCGAGAGGGCCAGAGTGGGAAACCTGTCC 764
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 325 CTGCGCATGGGAAACCAACCTAGTCTCCCGAGAGGGCCAGAGTGGGAAACCTGTCC 266
 |||
 765 TCATGCCCTTCTGCTAGGACCTTGGGTTGGGCGCAGCAGGGGCGAGGAGTTTCAG 824
 |||

265 TCATGCCCTTCTGCTAGGAGCCCTGAGGTGGCGAGGGGCGCCAGGGGAAGTTTCAG 206
 825 GCCTTCATCAAAAGAAACAATCTCTCAGCTCCGACCCCTCATCTGTATCAGCACATTA 884
 205 GCCTTCATCAAAAGAAACAATCTCTCAGCTCCGACCCCTCATCTGTATCAGCACATTA 146
 885 CCGGTGTGTACTGCCCTTGTCTAGCTAGCATACGCTGGGCGCCACCTGGCCCACTGGCTGT 944
 145 CCGGTGTGTACTGCCCTTGTCTAGCTAGCATACGCTGGGCGCCACCTGGCCCACTGGCTGT 86
 945 TTATGCCACTGATTATGATAGGGAATATCTTTTGAACCCAA-TGAAGTGTTTTCTCC 1003
 85 TTATGCCACTGATTATGATAGGGAATATCTTTTGAACCCAA-TGAAGTGTTTTCTCC 26
 1004 CCCATCACAAAAA 1022
 25 CCCATCACAAAAA 7

RESULT 5
 BQ953674
 LOCUS
 DEFINITION BQ953674 642 bp mRNA linear EST 21-AUG-2002
 IMAGE:6198871 5', mRNA sequence.
 ACCESSION BQ953674
 VERSION BQ953674.1 GI:22369152
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 642)
 AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-r@mail.nih.gov
 CDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
 Clone Distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLAM13611 row: d column: 08
 High quality sequence stop: 600.
 Location/Qualifiers

FEATURES
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6198871"
 /sex="male"
 /tissue_type="sciatic nerve"
 /lab_host="adult, 70 yr"
 /note="Vector: pCMV-SPORT6 (Life Technologies); Site 1:
 Not I; Site 2: Sall; cDNA made by oligo-dT priming.
 Directionally cloned using the following adaptors:
 5'-TGACCAGCGCTCCG-3' and
 5'-GACTAGTTCGATCCGAGCGGCCCT(15)-3'. Size selected >
 1 kb for average insert length 1.87 kb. This is a primary
 library, non-amplified. Library constructed by Life
 Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
 College of Medicine) and is available through Life
 Technologies."

ORIGIN
 Query Match 23.8%; Score 640; DB 5; Length 642;
 Best Local Similarity 100.0%; Pred. No. 4.2e-157;
 Matches 640; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2100 CCACATAGCCCAAGTTTCAGGAAGTCACCTGGAGGTAGATGGGGCCCGAGGTTCCACAG 2159
DB |||||
DB 1 CCACATAGCCCAAGTTTCAGGAAGTCACCTGGAGGTAGATGGGGCCCGAGGTTCCACAG 60
QY 2160 CTACTGATGGCCAGCCAGGTTAGCTCTCTGTGTCAGTCCGGATCCCACCTTGAGCA 2219
DB |||||
DB 61 CTACTGATGGCCAGCCAGGTTAGCTCTCTGTGTCAGTCCGGATCCCACCTTGAGCA 120
QY 2220 TCTCATGCTCAGATAGTGGGCAAGTCTCTTGTTCACAGTGTGGTCTGTCCTGAG 2279
DB |||||
DB 121 TCTCATGCTCAGATAGTGGGCAAGTCTCTTGTTCACAGTGTGGTCTGTCCTGAG 180
QY 2280 GGCCTATTGCTGGGCGTGTCTCTGTGTCAGTCCGGATCCCACCTTGAGCA 2339
DB |||||
DB 181 GGCCTATTGCTGGGCGTGTCTCTGTGTCAGTCCGGATCCCACCTTGAGCA 240
QY 2340 CCACAGAGAAGGAGGACTGTGTTGGGTGCTCTCTGACGCTCCCGTCCGGGTTGA 2399
DB |||||
DB 241 CCACAGAGAAGGAGGACTGTGTTGGGTGCTCTCTGACGCTCCCGTCCGGGTTGA 300
QY 2400 ACCAGGTTACTGTGCTTCAATGCTCATGATTTAAAATGATTTCTTTTAAAGATG 2459
DB |||||
DB 301 ACCAGGTTACTGTGCTTCAATGCTCATGATTTAAAATGATTTCTTTTAAAGATG 360
QY 2460 AACCTCCACACCTTTTCCAGATGGGTGACTTTTCTAAAGTGTGGAGTATCTGT 2519
DB |||||
DB 361 AACCTCCACACCTTTTCCAGATGGGTGACTTTTCTAAAGTGTGGAGTATCTGT 420
QY 2520 CGGGTGTGGTCCCTTGATGGGTGAGTGGGTGAGAGTCCCTGGGAGTGGGGC 2579
DB |||||
DB 421 CGGGTGTGGTCCCTTGATGGGTGAGTGGGTGAGAGTCCCTGGGAGTGGGGC 480
QY 2580 TTGAGTCAAAAGTGTCTCTACTGCAATGTCTTCTACTGCTAAATAAAGCATATTTTGCAC 2639
DB |||||
DB 481 TTGAGTCAAAAGTGTCTCTACTGCAATGTCTTCTACTGCTAAATAAAGCATATTTTGCAC 540
QY 2640 TTGTTACTGTACCAAGTGTGGGGAGAGAAAGTCTGTATGTTGGATCTGTGCTGGTATGA 2699
DB |||||
DB 541 TTGTTACTGTACCAAGTGTGGGGAGAGAAAGTCTGTATGTTGGATCTGTGCTGGTATGA 600
QY 2700 ATGCAAAATAAACTACACATTTTGAAGAAAATAAAAAA 2739
DB |||||
DB 601 ATGCAAAATAAACTACACATTTTGAAGAAAATAAAAAA 640

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RESULT 6
BI518071/c
LOCUS 603041774T1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5162851 3',
DEFINITION mRNA sequence.
ACCESSION BI518071
VERSION BI518071.1 GI:15342863
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 791)
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Place: LLMW11404 row: d column: 20
High quality sequence start: 10
High quality sequence stop: 759.

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FEATURES
source
Location/Qualifiers
1..791
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5162851"
/lab_host="DH10B"
/clone_lib="NIH_MGC_116"
/note="Organ: pooled colon, kidney, stomach; Vector:
pMW-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon, 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size is 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."

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ORIGIN

```

Query Match 22.9%; Score 629.8; DB 4; Length 791;
Best Local Similarity 96.2%; Pred. No. 2.2e-154;
Matches 753; Conservative 0; Mismatches 17; Indels 13; Gaps 10;
QY 1882 TGGGTCCGAGTCCGGCTGCGCCAT--CCAGCCCTCCTGGTGC--TTGTCCAGCCCTCTGTG 1938
DB |||||
DB 791 TGGTCCGAGTCCGGCTGCGCCATTCAGGCCCTGCGCCTGTCAGTTCAGCCCTCTGTG 732
QY 1939 CACCCCTGGTGTCTCACT-CCAGGGGAGAGAGAGAGACACAGTGCAGTTCCTTTCTTCGTG 1997
DB |||||
DB 731 CACCCCTGGTGTCTCACTCCTCCAGGGGAGAGAGAGACACAGTGCAGTTCCTCTCTCTGTG 672
QY 1998 AGTAAACAGTAGTAGGAGCTGGGGCTAAACAGGTAGGCTTTGTGTTC-TGCCGATTTG 2056
DB |||||
DB 671 AGTAAACAGTAGTAGGAGCTGGGGCTAAACAGGTAGGCTTTGTGTTC-TGCCGATTTG 612
QY 2057 GTGAGTCTCACTCGATCTCCCTAAAGCAATGGGAGGGGCCGCCACATGAGCCCTGTTC 2116
DB |||||
DB 611 GTGAGTCTCACTCGATCTCCCTAAAGCAATGGGAGGGGCCGCCACATGAGCCCTGTTC 552
QY 2117 AGGAGTCAACTGGGAGGTTAGATGGGGCCAGAGGTTCCACAGTACTGATGGGCCAGC 2176
DB |||||
DB 551 AGGAGTCAACTGGGAGGTTAGATGGGGCCAGAGGTTCCACAGTACTGATGGGCCAGC 492
QY 2177 CAGGTTGAGCTTCCTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCCAGATA 2236
DB |||||
DB 491 CAGGTTGAGCTTCCTCCAGTCCGGATCCCACTTGCAGATCTCATGCTCCAGATA 432
QY 2237 GGTGGAGCAAGTCTTTTGTCTACAGTGTGGCTCTCTGTCAGGCTTCTTCTTCAGGCTG 2296
DB |||||
DB 431 GGTGGAGCAAGTCTTTTGTCTACAGTGTGGCTCTCTGTCAGGCTTCTTCTTCAGGCTG 372
QY 2297 GTGCTCTGTGGGAAAGGCTTCCTCGGGGCTTCG- TTGGTTAAACACAGAGAGAGAGG 2355
DB |||||
DB 371 GTGCTCTGTGGGAAAGGCTTCCTCGGGGCTTGTCAATGGTTAAACACAGAGAGAGAGG 312
QY 2356 GACTGTTGGGGTGGCTCTGTGACCTCCCGTGTGGG-TGGGAAGCACCGT-TACTGT 2413
DB |||||
DB 311 GACTGTTGGGGTGGCTCTGTGACCTCCCGTGTGGG-TGGGAAGCACCGTCTACTGT 252
QY 2414 GTTCTCTAA---TGTTCATGTATTTAAATGATTTCTTAAAGATAAACCCTCCACAC 2470
DB |||||
DB 251 GTTCTCTCAAGTTCACGTACTTTAAATGATTTCTTCTTAAAGATAAACCCTCCACAC 192
QY 2471 CTTTCCAGATGGGTGACTTTCTTTTAAAGTGGTGGAGTATCTG-TGGGGTGGTG 2529
DB |||||
DB 191 CTTTCCAGATGGGTGACTTTCTTTTAAAGTGGTGGAGTATCTGCTCCGGGTGGTG 132
QY 2530 TGGCCCTTGGATGGGTCAGGTGGGTTGAGAGTCTCCT--GGGAGGTGGGCTTTCAGCTCA 2588
DB |||||
DB 131 TGGCCCTTGGATGGGTGAGTGGGTTGAGAGTCTCCTCGGGGAGTGGGCTTTGAGCTCA 72

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QY 2589 AAGTTGTCCTACTGCGCATGTTTTGACCTGAAATAAAGCATAATTTGCACTTTGACTG 2648
Db 71 AAGTTGTCCTACTGCGCATGTTTTGACCTGAAATAAAGCATAATTTGCACTTTGACTG 12
QY 2649 TAC 2651
Db 11 TAC 9

RESULT 7
BQ045123/c
LOCUS BQ045123 640 bp mRNA linear EST 21-FEB-2003
DEFINITION UI-CF-EN1-ael-i-10-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
VERSION BQ045123
KEYWORDS BQ045123.1 GI:19796176
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 640)
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
discovey
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
PUBMED 8889548
COMMENT Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4856
Fax: 319 356 7171
Email: paul-mccray@iowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
genetics (www.resgen.com) or from Open Biosystems
Seg primer: M13 FORWARD
POLYA=Yes
Location/Qualifiers
1..640
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue="UI-CF-EN1-ael-i-10-0-UI"
/cells="_type="Primary Lung Cystic Fibrosis Epithelial
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/clone_lib="UI-CF-EN1"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (d)18 tail. The
sequence tag for this library is CTGCTCAGG.
TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

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ORIGIN
Query Match 22.3%; Score 615; DB 5; Length 640;
Best Local Similarity 98.6%; Pred. No. 1.6e-150;
Matches 630; Conservative 0; Mismatches 7; Indels 2; Gaps 1;
QY 2103 CTAGCCCAATTTTCAGG--AAGTCNACTGGGAGGTTAGATGGGGCCAGGGTCCACACAGC 2160
Db 640 CTAGCCCAATTTTCAGGAAAGTCAACNTGGGAGGTTAGATGGGGCCAGGGTCCACACAGC 581
QY 2161 TACTGATGCCCCGAGCCAGGTTGAGCTTCCCTGGTCCAGTCCCGGATCCCACTTGCAGAT 2220
Db 580 TACTGATGCCCCGAGCCAGGTTGAGCTTCCCTGGTCCAGTCCCGGATCCCACTTGCAGAT 521
QY 2221 CTCATGCTCTCAGATAGGTGGGCAAGTCTTTTGTCTACAGTGTGGTCTCTCTGCTGAGG 2280
Db 520 CTCATGCTCTCAGATAGGTGGGCAAGTCTTTTGTCTACAGTGTGGTCTCTCTGCTGAGG 461
QY 2281 CCTCAATTCGTGGTGGTGGTCTCTGCTGGGAAAGCTTTGGGGGCTTGGTTGTTAAC 2340
Db 460 CCTCAATTCGTGGTGGTGGTCTCTGCTGGGAAAGCTTTGGGGGCTTGGTTGTTAAC 401
QY 2341 CACAGAAGAGAAGGCGACTGTTGGGGTCCCTCTCTGAGCCCTCCCGTGTGGGTGAAA 2400
Db 400 CACAGAAGAGAAGGCGACTGTTGGGGTCCCTCTCTGAGCCCTCCCGTGTGGGTGAAA 341
QY 2401 GCACGGTTACTGCTTCTTAATGTTCATGTATTTAAATGATTTCTTAAAGATGTA 2460
Db 340 GCACGGTTACTGCTTCTTAATGTTCATGTATTTAAATGATTTCTTAAAGATGTA 281
QY 2461 ACCTCCACACCTTTCTCCAGATGGGTGACTTTTCTTAAAGGTGGGAGTATCTGTC 2520
Db 280 ACCTCCACACCTTTCTCCAGATGGGTGACTTTTCTTAAAGGTGGGAGTATCTGTC 221
QY 2521 GGGGTGGTGGCCCTTCGATGGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2580
Db 220 GGGGTGGTGGCCCTTCGATGGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 161
QY 2581 TGAGTCTCAAGTTGCTTACTCCCATGTTTTGTACTGAAATAAAGCATATTTTGCAC 2640
Db 160 TGAGTCTCAAGTTGCTTACTCCCATGTTTTGTACTGAAATAAAGCATATTTTGCAC 101
QY 2641 TGTACTGTPACCATAGTGGGACGAGAAAGTCTGTATGTGGGATCTGTCTGGTGGTGGT 2700
Db 100 TGTACTGTPACCATAGTGGGACGAGAAAGTCTGTATGTGGGATCTGTCTGGTGGTGGT 41
QY 2701 TGCATAATAAACTCACATTTGTAAGAAAAAATAAAAAA 2739
Db 40 TGCATAATAAACTCACATTTGTAAGAAAAAATAAAAAA 2

RESULT 8
CB305549/c
LOCUS CB305549 625 bp mRNA linear EST 04-MAR-2003
DEFINITION UI-CF-EN1-aed-n-21-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
ACCESSION CB305549
VERSION CB305549.1 GI:28846060
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 625)
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
discovey
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
PUBMED 8889548
COMMENT Contact: McCray, PB
McCray Lab
University of Iowa

```


2024 University of Iowa Med Labs, Iowa City, IA 52242, USA

Tel: 319 356 4866
Fax: 319 356 7171

Email: paul-mccray@uiowa.edu

Tissue Procurement: Dr. M. J. Welsh, University of Iowa
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes

Location/Qualifiers

1..625

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="UI-CF-EN1-aed-n-21-0-UI"

/tissue_type="Primary Lung Cystic Fibrosis Epithelial
Cells"

/dev_stages="Adult"

/lab_host="DHI10B (Life Technologies) (T1 phage resistant)";

/clone_lib="UI-CF-EN1"

/note="Organ: Lung; Vector: p77T3-pac (Pharmacia) with a
modified polylinker; Site 1: Ecor I; Site 2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an Ecor I adaptor, digested with Not
I, and cloned directionally into p77T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

RESULT 9

CD723979

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

Source

Query Match 22.1%; Score 608; DB 6; Length 625;

Best Local Similarity 99.5%; Pred. No. 1.1e-148;

Matches 619; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

404 CTGCCAGGGCCACCTGAGAGCTCTCGTAAACCCCACTTAGCTTCAGACCTTTCTGCA 463

625 CTGCCAGGGCCACCTGAGAGCTCTCGTAAACCCCACTTAGCTTCAGACCTTTCTGCA 566

464 AAAGCTCTCTGCTTCTCCCTCCCAATATGCGGTACAGTAAACAGATCTGAG 523

565 AAAGCTCTCTGCTTCTCCCTCCCAATATGCGGTACAGTAAACAGATCTGAG 506

524 GGCAACTGCTGTAGTGGCCAGGGCTGACCTGCACTGCACTCCCGGCTCTGCCACTTTAGG 593

505 GGCAACTGCTGTAGTGGCCAGGGCTGACCTGCACTCCCGGCTCTGCCACTTTAGG 446

584 GCCTTCTAGAGCGAGTGTCTTAGAAGTAGTCTGAGGATGGTCTTCTGCTCCCTGTTG 643

445 GCCTTCTAGAGCGAGTGTCTTAGAAGTAGTCTGAGGATGGTCTTCTGCTCCCTGTTG 386

644 CAGGGCAGCTGATGGGTAAGTGGGGAAGGACGGTTCAGTCTTTGGGCCCCAGCTGGCCA 703

385 CAGGGCAGCTGATGGGTAAGTGGGGAAGGACGGTTCAGTCTTTGGGCCCCAGCTGGCCA 326

704 GCCTGGCGATGGGGAACCAACCATCTCCCGCAGGAGGCGGAGTGGGAACCTGTC 763

325 GCCTGGCGATGGGGAACCAACCATCTCCCGCAGGAGGCGGAGTGGGAACCTGTC 266

764 CTCATGCCCTTCGCTCCTGAGGAGCCCTGAGGTGGCCAGACGGGGCCAGGGGAAGTTTTCA 823

Db 265 CTCATGCCCTTCGCTCCTGAGGAGCCCTGAGGTGGCCAGCAGGGGAAGTTTTCA 206
Qy 824 GGCTTCATCAAGAGAGAACATCTCAGCTCCGACCCCTCATCTCTGTATCAGCACTT 883
Db 205 GGCTTCATCAAGAGAGAACATCTCAGCTCCGACCCCTCATCTCTGTATCAGCACTT 146
Qy 884 ACC-GGTGTGACCTGCCCTTGTACAGTACATAGAGTGGGCGCCACCTGGCCACTGGCT 942
Db 145 ACCGGTGTGTACTGCCCTTGTACAGTACATAGAGTGGGCGCCACCTGGCCACTGGCT 86
Qy 943 GTTTATGCCACTGATTTATGATAGGAAATATTTATCTTTGACCACCAATGAAGTGTTCCTC 1002
Db 85 GTTTATGCCACTGATTTATGATAGGAAATATTTATCTTTGACCACCAATGAAGTGTTCCTC 26

1003 CCCCATCACAAAAAAA 1022

25 CCCCATCACAAAAAAA 6

CD723979 511 bp mRNA linear EST 26-JUN-2003
cj28g08.y1 Human lacrimal gland, unamplified: cj Homo sapiens cDNA
clone oJ28g08 5', mRNA sequence.

CD723979
CD723979.1 GI:32274833

EST.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 611)

Dickinson D., Laurie, G. and Wistow, G.

Expressed sequence tag analysis of human lacrimal gland

Unpublished (2002)

Contact: Wistow G

Section on Molecular Structure and Function

National Eye Institute

6/331, NIH, Bethesda, MD 20892-2740, USA

Tel: 301 402 3452

Fax: 301 496 0078

Email: graeme@helix.nih.gov

Plate: 28 row: g column: 08

Seq primer: M13RE1 reverse primer (ABI).

Location/Qualifiers

1..611

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="oJ28g08"

/tissue_type="Lacrimal gland"

/dev_stages="Adult"

/lab_host="EMDH10B"

/clone_lib="Human lacrimal gland, unamplified: oj"

/note="Organ: Eye; Vector: pCMVSPORT6; RNA was extracted

from 2 human lacrimal glands. A directionally cloned cDNA

library in the pCMVSPORT6 vector (Life Technologies) was

constructed at Bioserve Biotechnology (Laurel MD)

essentially following the protocols of the SuperScript

Plasmid System full details of which are contained in the

manufacturer's instruction manual

(http://www.lifetech.com/). First strand synthesis was

carried out using a Not I primer-adaptor

[5'-P G A C T A G T T C A G A T C C G G C C C C (F) 1 5 - 3 ']. EST analysis

was performed on the unamplified library at the NIH

Intramural Sequencing Center (NISC)."

ORIGIN

Query Match 21.9%; Score 604.2; DB 6; Length 611;

Best Local Similarity 99.5%; Pred. No. 1.1e-147;

Matches 606; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Seq primer: -40UP from Gibco
 High quality sequence stop: 453.
 Location/Qualifiers
 1. 577
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:2463121"
 /lab_host="DH10B"
 /clone_lib="NCI CGAP Kid11"
 /note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI CGAP Kid13 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subreactive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

167 GCACTGGCCGATGTCCTCCAGAGGCAAGGCTCTAGAGCGGCTCCACATGACTG 226
 2 GCACTGGCCGAGGCCCCAGAGGCAAGGCTCTAGAGCGGCTCCACATGACTG 61
 227 GCTTACACAGGCACTTCCCGCTGGGTTGATGCTGTGTCATCTTACCGGTCAGGTT 286
 62 GCTTACACAGGCACTTCCCGCTGGGTTGATGCTGTGTCATCTTACCGGTCAGGTT 121
 287 TGCAGGTAGGAATGTTTGTACCTCTTCTGATTTGCCACCTCTCCATCGCCCTTAG 346
 122 TGCAGGTAGGAATGTTTGTACCTCTTCTGATTTGCCACCTCTCCATCGCCCTTAG 181
 347 GGCAGGGCTTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGG 406
 182 GGCAGGGCTTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGG 241
 407 CCCAGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCA 466
 242 CCCAGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCAAGGCTGGTGGGCA 301
 467 GTCCTCTGCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 526
 302 GTCCTCTGCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 361
 527 AACTGCTGTAGTGGCCAGGCTGCACCTGCATCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 586
 362 AACTGCTGTAGTGGCCAGGCTGCACCTGCATCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 421
 587 TTCTAGAGGCAAGTCTTCTAGGAAGTACTGTAGGCAAGTGGTCTTCTGCTCCCTGTCAG 646
 422 TTCTAGAGGCAAGTCTTCTAGGAAGTACTGTAGGCAAGTGGTCTTCTGCTCCCTGTCAG 481
 647 GGCAGCTGATGGGATAGGTTGGGAAAGGAGGCTGAGTGGGCAAGGCTGGGCAAGGCTGGG 706
 482 GGCAGCTGATGGGATAGGTTGGGAAAGGAGGCTGAGTGGGCAAGGCTGGGCAAGGCTGGG 541
 707 TGGGCAAGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGG 766
 542 TGGGCAAGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGGCAAGGCTGGG 601
 767 ATGCCCTTC 775
 602 ATGCCCTTC 610

ORIGIN
 Query Match 20.5%; Score 563.4; DB 1; Length 577;
 Best Local Similarity 99.7%; Pred. No. 6.5e-137;
 Matches 575; Conservative 1; Mismatches 1; Indels 1; Gaps 1;
 QY 2150 GGTCCACAGCTACTGATGGCCCGGAGCCAGGTTGAGCTTCCCTGGTCCAGTCCCGATCC 2209
 DB 577 GGTCCACAGCTACTGATGGCCCGGAGCCAGGTTGAGCTTCCCTGGTCCAGTCCCGATCC 518
 QY 2210 CACTTGCAGATCTCATGCTCTCAGATAGTGGGCAAGTCTTTTGTGCACAGTGTGGCT 2269
 DB 517 CACTTGCAGATCTCATGCTCTCAGATAGTGGGCAAGTCTTTTGTGCACAGTGTGGCT 458
 QY 2270 CTGTCTGAGGCTCATTTGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2329
 DB 457 CTGTCTGAGGCTCATTTGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 398
 QY 2330 GCTTGGTTAAACACAG 2389
 DB 397 GCTTGGTTAAACACAG 338
 QY 2390 GCTGGGTGGAACACAGGTTACTGTGTTCTCTAAAGTTCATGATTAATAAATGATTTCTTT 2449
 DB 337 GCTGGGTGGAACACAGGTTACTGTGTTCTCTAAAGTTCATGATTAATAAATGATTTCTTT 278
 QY 2450 CTAAGATGTAACCTCCACACCTTTTCCAGATTTGGGTGACTCTTAA -GGTGGTG 2508
 DB 277 CTAAGATGTAACCTCCACACCTTTTCCAGATTTGGGTGACTCTTAAAGGGTGGTG 218
 QY 2509 GGAGTATCTGTCGGGGTGGTGGGCTTGGATGGGTGAGTGGGTGGGTGGGTGGGTGGGTGG 2568
 DB 217 GGAGTATCTGTCGGGGTGGTGGGCTTGGATGGGTGAGTGGGTGGGTGGGTGGGTGGGTGG 158
 QY 2569 GGAGTGGCGGTTGAGCTCAAAGTTGCTTACTGCTCAATGTTTGTACTGCTGAAATAAAGC 2628
 DB 157 GGAGTGGCGGTTGAGCTCAAAGTTGCTTACTGCTCAATGTTTGTACTGCTGAAATAAAGC 98
 QY 2629 ATATTTTGCATTTGTTACTGTACCATAGTCCGAGAGAGAGAGAGAGAGAGAGAGAGAG 2688
 DB 97 ATATTTTGCATTTGTTACTGTACCATAGTCCGAGAGAGAGAGAGAGAGAGAGAGAGAG 38
 QY 2689 CTTGGTTAGAAATGCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2725
 DB 37 CTTGGTTAGAAATGCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1

RESULT 10
 A1928242/c
 LOCUS w95h01.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463121 3',
 DEFINITION mRNA sequence.
 ACCSSION A1928242.1 GI:5664206
 VERSION EST.
 KEYWORDS Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 577)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R. Emert-Buck, M.D., Ph.D.
 CDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 721 Std Error: 0.00

RESULT 11
 BM019092
 LOCUS 603647129F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428711 5',
 DEFINITION mRNA sequence.
 ACCESSION BM019092

```

VERSION      BM019092.1  GI:16533446
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1 (bases 1 to 768)
             NIH-MGC http://mgc.nci.nih.gov/.
             National Institutes of Health, Mammalian Gene Collection (MGC)
             Unpublished (1999)
             Contact: Robert Strausberg, Ph.D.
             Email: cgapbs-remail.nih.gov
             Tissue procurement: ATCC
             CDNA Library Preparation: Ling Hong/Rubin Laboratory
             CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLML)
             DNA Sequencing by: Inyte Genomics, Inc.
             Clone distribution: MGC clone distribution information can be
             found through the I.M.A.G.E. Consortium/LLML at:
             http://image.llnl.gov
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             High quality sequence stop: 578.
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             in the laboratory of Gerald M. Rubin (University of
             California, Berkeley) using ZAP-cDNA synthesis kit
             (Stratagene) and Superscript II RT (Life Technologies).
             Note: this is a NIH_MGC Library."
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Best Local Similarity 94.8%; Pred. No. 1e-136;
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QY 1234 ATCCCTGTGATTTAAGAAAGCTCAGACAGTAAGGGCTTTTAAAGATAAA 1293
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BU678926
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KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
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REFERENCE    1 (bases 1 to 577)
             Ronaldo, M.F., Lennon, G. and Soares, M.B.
             Normalization and subtraction: two approaches to facilitate gene
             discovery
             Genome Res. 6 (9), 791-806 (1996)
JOURNAL      97044477
MEDLINE      8889548
PUBMED
COMMENT      Contact: McCray, PB
             McCray Lab
             University of Iowa
             2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
             Tel: 319 356 4866
             Fax: 319 356 7171
             Email: paul-mccray@uiowa.edu
             Tissue Procurement: Dr. M. J. Welsh, University of Iowa
             CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
             CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
             DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
             Clone Distribution: Researchers may obtain clones from Research
             Genetec (www.resgen.com) or from Open Biosystems
             (www.openbiosystems.com).
             The following repetitive elements were found in this cDNA
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             library was constructed according to Ronaldo, Lennon and
             Soares, Genome Research, 6:791-806, 1996. First strand
             cDNA synthesis was primed with an oligo-dT primer
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RESULT 14
AW173671/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
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ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
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VERSION
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AW195353.1 GI:6474429
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 538)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Greg Lennon, Ph.D.
DNA Distribution: Washington University Genome Sequencing Center
found through the I.M.A.G.E. Consortium/LLNL at:
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Average insert size 1.85 kb. Life Technologies catalog #:
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2251 TTTTGTTCAGTCAGTGCTGCTGCTCAGGCTCATGCTGGCTGGGCTGTCTGCTGTGG 2310
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415 GAAAAGCTTTCGGGGCTTTCGTTGGTTAAACACAGAGAGAGAGGGGACTGTTTGGGGTGC 356
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2371 CTCCTCGAGCTCCCGTGGTGGGAGACGCTTACTGCTTCTCTAAATGTTTCATG 2430
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mRNA sequence.
AW195353
AW195353.1 GI:6474429
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 538)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Greg Lennon, Ph.D.
DNA Distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco
High quality sequence stop: 464.
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prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneIDs i322376-1323911, 1456007-1456775, and
1500552-1502885). Subtraction by Bento Soares and M.
Fatima Bonaldo. "
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Job time : 8397 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 2334 Seconds
(without alignments)
6394.689 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3640242 seqs, 2709731945 residues
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Table with 5 columns: Result No., Score, Match, Length, DB ID, Description. Contains 21 rows of search results.

Table with 5 columns: C, 13, 75, 2.7, 32038, 9, US-09-764-878-292, Sequence 292, App. Contains 21 rows of sequence alignment data.

ALIGNMENTS

RESULT 1
US-09-989-920-100
; Sequence 100, Application US/09989920
; Patent No. US20020172957A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Prote
; FILE REFERENCE: DEX-0291
; CURRENT APPLICATION NUMBER: US/09/989,920
; CURRENT FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/252,500
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 2754
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-989-920-100

Table with 5 columns: Query Match, Best Local Similarity, Matches 2754, Score 2754, DB 9, Length 2754, Indels 0, Gaps 0. Contains alignment statistics for QY and Db sequences.

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 1321 GGAAGCAITTCAGATGAGCGTTTTCTGCAATTAACCTGCTATCACGCAATCTGTTCTGT 1380 Db
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 1381 TGTGCTGGGAGCCCTTGGAAAGTTCTGTTGCTTGTGCTTGTGCTTGTGCTTGTGCT 1440 Db
 1441 CCCCCTGCTGCTGGGAAATGAGAGCCCTTTGCTTTTCTTTTCTTTTCTTTTCTTTTCT 1500 Qy
 1441 CCCCCTGCTGCTGGGAAATGAGAGCCCTTTGCTTTTCTTTTCTTTTCTTTTCTTTTCT 1500 Db
 1501 TCTGSGGACCCGCTGGGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560 Qy
 1501 TCTGSGGACCCGCTGGGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560 Db
 1561 CGTGAGAGGACTTTGAGCAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1620 Qy
 1561 CGTGAGAGGACTTTGAGCAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1620 Db
 1621 TGTCTGGAGGGGAGGCTGATCTCACCTCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680 Qy
 1621 TGTCTGGAGGGGAGGCTGATCTCACCTCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680 Db
 1681 TTGGCTTCTGAGGCTGCAAGCCCTTTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740 Qy
 1681 TTGGCTTCTGAGGCTGCAAGCCCTTTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740 Db
 1741 AGGGAGTGTCTCACAGTGGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800 Qy
 1741 AGGGAGTGTCTCACAGTGGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800 Db
 1801 ATAGGGTATCTGGGCTGAGAAATCTGCAATCTGCAATCTGCAATCTGCAATCTGCAAT 1860 Qy
 1801 ATAGGGTATCTGGGCTGAGAAATCTGCAATCTGCAATCTGCAATCTGCAATCTGCAAT 1860 Db
 1861 TGGAGGAGTCCCAAGGAGATGGGCTGGAGTGGGCTGGGCTGGGCTGGGCTGGGCTGG 1920 Qy
 1861 TGGAGGAGTCCCAAGGAGATGGGCTGGAGTGGGCTGGGCTGGGCTGGGCTGGGCTGG 1920 Db
 1921 GCTTGTGAGCCCTGTGCAACCCCTGGTGTCTTCACTCCAGGGGAGAGCAGGAGCAGCT 1980 Qy
 1921 GCTTGTGAGCCCTGTGCAACCCCTGGTGTCTTCACTCCAGGGGAGAGCAGGAGCAGCT 1980 Db
 1981 CAGTTCCTTTCTGCTGAGTACAGTGTGATGAGTGTGAGTGTGAGTGTGAGTGTGAG 2040 Qy
 1981 CAGTTCCTTTCTGCTGAGTACAGTGTGATGAGTGTGAGTGTGAGTGTGAGTGTGAG 2040 Db
 2041 GTTGTGCGCAATTTGGTCAAGTCTTCTCACTCGATCTCCCTTAAAGCAATGGGAGGCCC 2100 Qy
 2041 GTTGTGCGCAATTTGGTCAAGTCTTCTCACTCGATCTCCCTTAAAGCAATGGGAGGCCC 2100 Db
 2101 CACTAGCCAGTTTTTCAAGGAGTCACTGGGAGGTTGATGGGAGGAGGAGGAGGAGGAG 2160 Qy
 2101 CACTAGCCAGTTTTTCAAGGAGTCACTGGGAGGTTGATGGGAGGAGGAGGAGGAGGAG 2160 Db
 2161 TACTGATGCGCCGAGCCAGGTTGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2220 Qy
 2161 TACTGATGCGCCGAGCCAGGTTGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2220 Db
 2221 CTCATGCTCTAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2280 Qy
 2221 CTCATGCTCTAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2280 Db
 2281 CCTCATTTGCTGGTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2340 Qy


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Db 2281 CCTCATTTGGCTGGGTGGTCTCTCTGCGAAGAGCTTTGCGGGCTTGGTTTAAAC 2340
Qy 2341 CACAGAAGAGAGGGGACTGTTTTGGGGTGCCTCTCTGCAGCCTCCCGGCTGGTGGAA 2400
Db 2341 CACAGAAGAGAGGGGACTGTTTTGGGGTGCCTCTCTGCAGCCTCCCGGCTGGTGGAA 2400
Qy 2401 GCAGGGTTACTGTTCTCTAAAGTTTCAATGTTTAAAGATGTTTCTTAAAGATGTA 2460
Db 2401 GCACGGTTACTGTTCTCTAAAGTTTCAATGTTTAAAGATGTTTCTTCTAAAGATGTA 2460
Qy 2461 ACCTCCACACCTTTCTCCAGATGGGTGACTTTTTCTAAAGTGGGAGTACTGTC 2520
Db 2461 ACCTCCACACCTTTCTCCAGATGGGTGACTTTTTCTAAAGTGGGAGTACTGTC 2520
Qy 2521 GGGGTGTTGGCCCTTTGGATGGGTGAGTGGGTGAGAGTCCCTGGGGAGTGGCCGT 2580
Db 2521 GGGGTGTTGGCCCTTTGGATGGGTGAGTGGGTGAGAGTCCCTGGGGAGTGGCCGT 2580
Qy 2581 TGAGCTCAAAAGTTGCTACTGCCATGTTTTTGTACTGAAATAAAAGCATATTTTGCAC 2640
Db 2581 TGAGCTCAAAAGTTGCTACTGCCATGTTTTTGTACTGAAATAAAAGCATATTTTGCAC 2640
Qy 2641 TGTTACTGACCTAGTCCGGACGAGAGTCTGTATGTTGGATCTGTGCTGGGTAGAA 2700
Db 2641 TGTTACTGACCTAGTCCGGACGAGAGTCTGTATGTTGGATCTGTGCTGGGTAGAA 2700
Qy 2701 TGCAATAAAACTCACATTTGTAAGAAAAAATAAAATAAAAGATGGGGCC 2754
Db 2701 TGCAATAAAACTCACATTTGTAAGAAAAAATAAAATAAAAGATGGGGCC 2754

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RESULT 2
; US-10-074-475-2
; Sequence 2, Application US/10074475
; Publication No. US2003092898A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Hu, Ping
; APPLICANT: Recipon, Herve
; APPLICANT: Karra, Kalpana
; APPLICANT: Cafferkey, Robert
; APPLICANT: Sun, Fengming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific
; FILE REFERENCE: DEX-0313
; CURRENT APPLICATION NUMBER: US/10/074,475
; CURRENT FILING DATE: 2002-02-13
; PRIOR APPLICATION NUMBER: 60/268,292
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 295
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 2754
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-074-475-2

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Query Match 100.0%; Score 2754; DB 14; Length 2754;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2754; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCCAGAACAGCCTCAGCTTGGCAAGGTGGAGATGACTGCTGTTCCCTTCGCAATTTGG 60
Db 1 GCCAGAACAGCCTCAGCTTGGCAAGGTGGAGATGACTGCTGTTCCCTTCGCAATTTGG 60
Qy 61 GGAAAACAGGCTCCCTCGGTAGCTGATGCTCTTTTGTATCTGTGTGACCTCCCTGGA 120
Db 61 GGAAAACAGGCTCCCTCGGTAGCTGATGCTCTTTTGTATCTGTGTGACCTCCCTGGA 120
Qy 121 GAGTGGATGACGCTGGTGGCTTAGCTTTTCTAGACAGTGTAAAATGTCATGGGCGAGT 180

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Db 121 GAGTGGATGACGCTGGTGGCTTAGCTTTTCTAGACAGTGTAAAATGTCATGGGCGAGT 180
Qy 181 CCCAGACAGAGGGCAAGGTCTCTAGAGGGGTCTCCACATGACTGGGCTTCCACAGGCA 240
Db 181 CCCAGACAGAGGGCAAGGTCTCTAGAGGGGTCTCCACATGACTGGGCTTCCACAGGCA 240
Qy 241 CTTCCGCTCGGGTTCGATGCTCTGTGTCACTTACCCGCTCCAGGGTTCAGGTAGGAAAT 300
Db 241 CTTCCGCTCGGGTTCGATGCTCTGTGTCACTTACCCGCTCCAGGGTTCAGGTAGGAAAT 300
Qy 301 GTTTGTACCTCTTCTGTATGGCCACTCTTCCCATCCGCTCTAGGACACAGGCTTTGAG 360
Db 301 GTTTGTACCTCTTCTGTATGGCCACTCTTCCCATCCGCTCTAGGACACAGGCTTTGAG 360
Qy 361 GGCCAGTAGGGGCTGFTCAGGCACCCAGGCTCTTGGGACCTGAGGCTCCAGGGGACCCCT 420
Db 361 GGCCAGTAGGGGCTGFTCAGGCACCCAGGCTCTTGGGACCTGAGGCTCCAGGGGACCCCT 420
Qy 421 GAGAGCTCCTGAAAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAAGCTCTCTCTGGGTT 480
Db 421 GAGAGCTCCTGAAAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAAGCTCTCTCTGGGTT 480
Qy 481 TCCTCCCTCCCACTTATGAGTCCAGACTAACAGATCTGAGGGCAACTGCTGTGCTAG 540
Db 481 TCCTCCCTCCCACTTATGAGTCCAGACTAACAGATCTGAGGGCAACTGCTGTGCTAG 540
Qy 541 TGCCAGGCTCAGCTGCACCTCCCGGCTCTGCCACTTTAGGGCTCTTCTAGAGCAAGT 600
Db 541 TGCCAGGCTCAGCTGCACCTCCCGGCTCTGCCACTTTAGGGCTCTTCTAGAGCAAGT 600
Qy 601 TCCTTAGGAAGTACTCTGAGGCATGGGTTTCTCTCTCTCTGTCAGGGGAGCTGATGGGA 660
Db 601 TCCTTAGGAAGTACTCTGAGGCATGGGTTTCTCTCTCTCTGTCAGGGGAGCTGATGGGA 660
Qy 661 TAAGTGGGAAAGGACGCTCAGTGTCTGGGCTCCAGCTGGCCAGCTCCGAGTGGGAAA 720
Db 661 TAAGTGGGAAAGGACGCTCAGTGTCTGGGCTCCAGCTGGCCAGCTCCGAGTGGGAAA 720
Qy 721 CCAAAACCATGTCCTCCAGGAAAGGCGCAGTGGGAACTGTCCTCATGCCCTTCGCTCT 780
Db 721 CCAAAACCATGTCCTCCAGGAAAGGCGCAGTGGGAACTGTCCTCATGCCCTTCGCTCT 780
Qy 781 GAGGACCTGAGTGGGCGAGGCGGCGAGGGGAAAGTTTTTCAGGCTTCATCAAAAGAGA 840
Db 781 GAGGACCTGAGTGGGCGAGGCGGCGAGGGGAAAGTTTTTCAGGCTTCATCAAAAGAGA 840
Qy 841 ACAACATCCTCAGCTCCGACCCCTCATCTCTATCAGCACTTACCAGGCTGACTGCTCC 900
Db 841 ACAACATCCTCAGCTCCGACCCCTCATCTCTATCAGCACTTACCAGGCTGACTGCTCC 900
Qy 901 CTTGTCAGTACATACGGTGGGCGCCACTGGCCCACTGGCTGTTTATGCCCAGTATTTA 960
Db 901 CTTGTCAGTACATACGGTGGGCGCCACTGGCCCACTGGCTGTTTATGCCCAGTATTTA 960
Qy 961 TGAATGGGAATATATCTTTTGAACCAATGAAAGTGTTCCTCCCACTCACAAAAAAA 1020
Db 961 TGAATGGGAATATATCTTTTGAACCAATGAAAGTGTTCCTCCCACTCACAAAAAAA 1020
Qy 1021 AATTCATATTTTAGTAGACATGTAATACCAAAAATATGTAATAATGTAATTTGTTG 1080
Db 1021 AATTCATATTTTAGTAGACATGTAATACCAAAAATATGTAATAATGTAATTTGTTG 1080
Qy 1081 GATTTTATCAATTTAAAAATTTGGAAATTTGTTGCTCTTACGGCAACATAATATTTGAT 1140
Db 1081 GATTTTATCAATTTAAAAATTTGGNAATTTGTTGCTCTTACGGCAACATAATATTTGAT 1140
Qy 1141 TTTGCTCTTTGGCTCTGAAAAGCCCAAAAATATTTACCGTCTAGCCGTTACAGAAAAGT 1200
Db 1141 TTTGCTCTTTGGCTCTGAAAAGCCCAAAAATATTTACCGTCTAGCCGTTACAGAAAAGT 1200
Qy 1201 TGCCTGACTCTGAGCCAGACCTCCATCTCCATCCCTGTTGGATTTTAAAGAAAAGC 1260

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Db 1201 TGCTGACTACTGAGCCAGACCCATTAACCTCACTCCCTGTTGGATTATTTAAAGBAAGC 1260
 Qy 1261 CTGAGACAGTAAGGGCTTTTTAAAGAATAAAAATGACTTGGTTGGCTTGGAGGAGG 1320
 Db 1261 CTCACACAGTAAGGGCTTTTTAAAGAATAAAAATGACTTGGTTGGCTTGGAGGAGG 1320
 Qy 1321 GGAACCATTCAGTAGAGCGGTTTCTGCAATTAACCCGCTGATCAAGCATCTCGTGTCCG 1380
 Db 1321 GGAACCATTCAGTAGAGCGGTTTCTGCAATTAACCCGCTGATCAAGCATCTCGTGTCCG 1380
 Qy 1381 TGTGGCTGGAGCGCCCCCTTGAAAGTTCTGGTTCATGCTTCAGCTGCTCCTGCAGAGTCCA 1440
 Db 1381 TGTGGCTGGAGCGCCCCCTTGAAAGTTCTGGTTCATGCTTCAGCTGCTCCTGCAGAGTCCA 1440
 Qy 1441 CCCGGCCTGCTGTTGGGAATGAGAGCCCTTGTCTGCTCTTCCCTTCCTTGTCCCTGTG 1500
 Db 1441 CCCGGCCTGCTGTTGGGAATGAGAGCCCTTGTCTGCTCTTCCCTTCCTTGTCCCTGTG 1500
 Qy 1501 TCCTGGGACCCGCTGGGCCCTTTGCTGTCATCCCTCGCCAGGTCCCTCAGGGTTGATG 1560
 Db 1501 TCCTGGGACCCGCTGGGCCCTTTGCTGTCATCCCTCGCCAGGTCCCTCAGGGTTGATG 1560
 Qy 1561 CGTGAGAAAGACTTGGAGAGTGGTGGGAGAGAGTGGCTTCCGCGGAGCTCAGCTCT 1620
 Db 1561 CGTGAGAAAGACTTGGAGAGTGGTGGGAGAGAGTGGCTTCCGCGGAGCTCAGCTCT 1620
 Qy 1621 TGTCTGGGAGGGGAGCCTGATCTCACCTCACTAGTACCTTGGGACTGAGGACCTT 1680
 Db 1621 TGTCTGGGAGGGGAGCCTGATCTCACCTCACTAGTACCTTGGGACTGAGGACCTT 1680
 Qy 1681 TTGGTTCTGTGGAGCTGCAAGCCCTTTCATGTGTGCTGCTTTCCTGTGCATCAA 1740
 Db 1681 TTGGTTCTGTGGAGCTGCAAGCCCTTTCATGTGTGCTGCTTTCCTGTGCATCAA 1740
 Qy 1741 AGGGAGTCTCACAGTGGCTCACCTTGTGGTTTGGGAGGGGCGGCCCGCCCTTCC 1800
 Db 1741 AGGGAGTCTCACAGTGGCTCACCTTGTGGTTTGGGAGGGGCGGCCCGCCCTTCC 1800
 Qy 1801 ATAAAGGTATCTCGGCCCTGAGAATCTGCATCTGCCATTCGGAGTGGAGCTGACCCAAA 1860
 Db 1801 ATAAAGGTATCTCGGCCCTGAGAATCTGCATCTGCCATTCGGAGTGGAGCTGACCCAAA 1860
 Qy 1861 TGGAGAGTCCAGGGAGATGGTCCGAGTCCGGTGGCCATCCAGCCCGCCCTGG 1920
 Db 1861 TGGAGAGTCCAGGGAGATGGTCCGAGTCCGGTGGCCATCCAGCCCGCCCTGG 1920
 Qy 1921 GCTTCTCAGGCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGCAGACAGCCACTG 1980
 Db 1921 GCTTCTCAGGCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGCAGACAGCCACTG 1980
 Qy 1981 CAGTTCCTTTCTGTAAGTACAGTGTGATGATGATGAGTGGGTTAAGTGGGTTCCGAGT 2040
 Db 1981 CAGTTCCTTTCTGTAAGTACAGTGTGATGATGATGAGTGGGTTAAGTGGGTTCCGAGT 2040
 Qy 2041 GTGTTCTGGATTTGTTCAGCTTCTCACTCGATCCTCCCTAAAGCAATGGGAGGCCCC 2100
 Db 2041 GTGTTCTGGATTTGTTCAGCTTCTCACTCGATCCTCCCTAAAGCAATGGGAGGCCCC 2100
 Qy 2101 CACTAGCCAGTTTTCAGGAATCACTGGGAGGTTTATGATGGGCGCCAGGGTCCCACAGC 2160
 Db 2101 CACTAGCCAGTTTTCAGGAATCACTGGGAGGTTTATGATGGGCGCCAGGGTCCCACAGC 2160
 Qy 2161 TACTAGTGGCCGAGCCAGGTTTGTGCTTCCAGTCCAGTCCCGATCCCACTTGCAGAT 2220
 Db 2161 TACTAGTGGCCGAGCCAGGTTTGTGCTTCCAGTCCAGTCCCGATCCCACTTGCAGAT 2220
 Qy 2221 CTCATGCTCAGATAGGTGGGAAAGGTTCTTTTGTGCAGAGTGTGGCTGTGCTGGTAA 2280
 Db 2221 CTCATGCTCAGATAGGTGGGAAAGGTTCTTTTGTGCAGAGTGTGGCTGTGCTGGTAA 2280
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 Db 2281 CCTCATGCTGGTGGGTTGCTCCTGCTGGGAAAGGTTCTTTTGTGCAGAGTGTGGTAA 2340

Qy 2341 CACAGAAGAAAGGGAGCTTTGGGGTCCCTCTCGAGCCTCCCTGCTGGGTGAA 2400
 Db 2341 CACAGAAGAAAGGGAGCTTTGGGGTCCCTCTCGAGCCTCCCTGCTGGGTGAA 2400
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 Db 2401 GCAGCGTACTGTTCTCTAATGTTCAATGTTCAATGTTCAATGTTCAATGTTCAATGTTCA 2460
 Qy 2461 ACCTCCACACCTTTTCCAGATTGGGTGACTCTTTCTAAAGGTGGTGGAGTATCTGT 2520
 Db 2461 ACCTCCACACCTTTTCCAGATTGGGTGACTCTTTCTAAAGGTGGTGGAGTATCTGT 2520
 Qy 2521 GGGTGGTGTGGCCCTTGGATGGTCAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2580
 Db 2521 GGGTGGTGTGGCCCTTGGATGGTCAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2580
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 Db 2581 TGAGTCAAAGTTTCTCACTCCCAATGTTTTTTGTAACCTGAAATAAAGCATATTTGCACT 2640
 Qy 2641 TGTTACTGTAACCATAGTGGGACGAAAGTCTGTGTAAGTGGGATCTGTCTGGGTAGAA 2700
 Db 2641 TGTTACTGTAACCATAGTGGGACGAAAGTCTGTGTAAGTGGGATCTGTCTGGGTAGAA 2700
 Qy 2701 TGCAATAAATAAATCACTTTGTAAGAAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2754
 Db 2701 TGCAATAAATAAATCACTTTGTAAGAAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2754

RESULT 3
 US-09-989-920-91/c
 ; Sequence 91, Application US/09989920
 ; Patent No. US2002172957A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Macina, Roberto
 ; APPLICANT: Recipon, Herve
 ; APELICANT: Chen, Sei-yu
 ; APELICANT: Sun, Yongming
 ; APELICANT: Liu, Chenghua
 ; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Prote
 ; FILE REFERENCE: DEX-0291
 ; CURRENT APPLICATION NUMBER: US/09/989, 920
 ; CURRENT FILING DATE: 2001-11-21
 ; PRIOR APPLICATION NUMBER: 60/252,500
 ; PRIOR FILING DATE: 2000-11-22
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 91
 ; LENGTH: 2399
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; US-09-989-920-91

Query Match 87.1%; Score 2397.4; DB 9; Length 2399;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2399; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 356 TTGAGGGCCAGTGGGCTGTGGTGGGACCCCGAGGCTTCTTGGGACCTCCAGGGGG 415
 Db 2399 TTGAGGGCCAGTGGGCTGTGGTGGGACCCCGAGGCTTCTTGGGACCTCCAGGGGG 2340
 Qy 416 ACCCTGAGAGCTCCGAAACCCCACTTGTAGCTTCCAGACTTGTGCAAAAGACTCTCT 475
 Db 2339 ACCCTGAGAGCTCCGAAACCCCACTTGTAGCTTCCAGACTTGTGCAAAAGACTCTCT 2280
 Qy 476 GGGTTCCTTCCCTCCCAATCTATGGGTCAAGTAAACAGATGTGGGGCAACTGTGT 535
 Db 2279 GGGTTCCTTCCCTCCCAATCTATGGGTCAAGTAAACAGATGTGGGGCAACTGTGT 2220
 Qy 536 GGTAGTGCAGGGGTGACCTGCCATCCCGGCTCCAGCTTCTGCGCTTCTAGAGG 595
 Db 2219 GGTAGTGCAGGGGTGACCTGCCATCCCGGCTCCAGCTTCTGCGCTTCTAGAGG 2160

Qy 596 CAGTGTCTTAGGAATAGCTCTGAGGATGGGTTTCTGCTCTGTCAGGCGAGCTGA 655
 Db |||||
 2159 CAGTGTCTTAGGAATAGCTCTGAGGATGGGTTTCTGCTCTGTCAGGCGAGCTGA 2100
 Qy 656 TGGGATAGGTGGGAAAGGAGCGTCACTGCTTGGGCCCCAGCTGGCCAGCTGGCGATGG 715
 Db |||||
 2099 TGGGATAGGTGGGAAAGGAGCGTCACTGCTTGGGCCCCAGCTGGCCAGCTGGCGATGG 2040
 Qy 716 GGAARCAACCACTGTCCTCCAGCGAAGGCGCAGAGTGGGAACCTGTCATGCCCTTC 775
 Db |||||
 2039 GGAARCAACCACTGTCCTCCAGCGAAGGCGCAGAGTGGGAACCTGTCATGCCCTTC 1980
 Qy 776 GTCCTGAGGAGCCCTGAGTGGGCGAGAGGCGGCGAGGGAAGTTTTCAGGCCCTCATCAA 835
 Db |||||
 1979 GTCCTGAGGAGCCCTGAGTGGGCGAGAGGCGGCGAGGGAAGTTTTCAGGCCCTCATCAA 1920
 Qy 836 AGAGAACCAATCCTCAGCTCCGACCCCTCATCTGTATCAGCACCTTACCGGTFGTGA 895
 Db |||||
 1919 AGAGAACCAATCCTCAGCTCCGACCCCTCATCTGTATCAGCACCTTACCGGTFGTGA 1860
 Qy 896 CTGCCCTGTCAGCTAGCATACGCTGGCCACCTGGCCACCTGGCTGTTTATGCCACTG 955
 Db |||||
 1859 CTGCCCTGTCAGCTAGCATACGCTGGCCACCTGGCCACCTGGCTGTTTATGCCACTG 1800
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 1799 ATTTATGATAGGGAATATATCTTTGAACCCCAATGAAGTGTFTTCTCCCCATCACAAA 1740
 Qy 1016 AAAAAATCTTATTTTAGTACATGATTTACCAAAAATATGTAATGTA 1075
 Db |||||
 1739 AAAAAATCTTATTTTAGTACATGATTTACCAAAAATATGTAATGTA 1680
 Qy 1076 TTTTGGATTTTATCAATTTAAAATTTGGAAATTTGCTCTTACGGCCAAATAA 1135
 Db |||||
 1679 TTTTGGATTTTATCAATTTAAAATTTGGAAATTTGCTCTTACGGCCAAATAA 1620
 Qy 1136 TTGATTTGCTCTGCTGTAAGCCCAAAAATTTACGCTAGCCGTTACAGAAA 1195
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 1619 TTGATTTGCTCTGCTGTAAGCCCAAAAATTTACGCTAGCCGTTACAGAAA 1560
 Qy 1196 AAGTCTGACTACTAGCCAGACCTCCATACCTCCCTGTTGGATTTTAAAG 1255
 Db |||||
 1559 AAGTCTGACTACTAGCCAGACCTCCATACCTCCCTGTTGGATTTTAAAG 1500
 Qy 1256 AAAGCCTCAGACAGTAAGGCTTTTTTAAAAGATAAATGACTTGGTTTGGCGTTGAAA 1315
 Db |||||
 1499 AAAGCCTCAGACAGTAAGGCTTTTTTAAAAGATAAATGACTTGGTTTGGCGTTGAAA 1440
 Qy 1316 GCAGGGAGCAATTCAGATGAGCGGTTCTGCAATACCTCCCTATCAGCATCTGCTG 1375
 Db |||||
 1439 GCAGGGAGCAATTCAGATGAGCGGTTCTGCAATACCTCCCTATCAGCATCTGCTG 1380
 Qy 1376 TCCTGTGTGGTGGCGAGCCCTTGGAAAGTTCTGGTGTCTCAGCTGGCTCTGTCAGA 1435
 Db |||||
 1379 TCCTGTGTGGTGGCGAGCCCTTGGAAAGTTCTGGTGTCTCAGCTGGCTCTGTCAGA 1320
 Qy 1436 GTCACCCCGCTGTGTGGGAATGACAGCCCTTGTCTTCTTCTGCGCCCTGCTT 1495
 Db |||||
 1319 GTCACCCCGCTGTGTGGGAATGACAGCCCTTGTCTTCTTCTGCGCCCTGCTT 1260
 Qy 1496 CCTGTCTGGGAGCCCTGGGCTTGGTCTGCACTCCCTGGCCAGGTCCTTCAGGGT 1555
 Db |||||
 1259 CCTGTCTGGGAGCCCTGGGCTTGGTCTGCACTCCCTGGCCAGGTCCTTCAGGGT 1200
 Qy 1556 TGATCGTGGAGAGGACTTTGACAGTGGTGGCAGAGTGGCCCTCTGCGCCAGCTCAC 1615
 Db |||||
 1199 TGATCGTGGAGAGGACTTTGACAGTGGTGGCAGAGTGGCCCTCTGCGCCAGCTCAC 1140
 Qy 1616 ACTCTGCTGGGAGGCGACTGCTCACCTCCAGCTAGTACCTTGGGACTGAGG 1675
 Db |||||
 1139 ACTCTGCTGGGAGGCGACTGCTCACCTCCAGCTAGTACCTTGGGACTGAGG 1080

Qy 1676 ACCTTTTGGCTTCTGAGGACCTGCAAGCCCTTCCCATGTGTCAGCTGCTTCTTCCCTGC 1735
 Db |||||
 1079 ACCTTTTGGCTTCTGAGGACCTGCAAGCCCTTCCCATGTGTCAGCTGCTTCTTCCCTGC 1020
 Qy 1736 TACAAAGGGGACTGCTCAAGTGGCTCAGCTTGGTGTGTTTTGAGGGGCGCCCGCCCGGC 1795
 Db |||||
 1019 TACAAAGGGGACTGCTCAAGTGGCTCAGCTTGGTGTGTTTTGAGGGGCGCCCGCCCGGC 960
 Qy 1796 CCTCCATRAGGATCCCTGGGCTCAGAAATCTGATCTGCCATTTGGAGTGGAGTGGACAGCC 1855
 Db |||||
 959 CCTCCATRAGGATCCCTGGGCTCAGAAATCTGATCTGCCATTTGGAGTGGAGTGGACAGCC 900
 Qy 1856 TCAATRAGGATCCCAAGGAGATGGGTCAGGTCGGGCTGTCGCTGTCGCTCCAGCCCC 1915
 Db |||||
 899 TCAATRAGGATCCCAAGGAGATGGTCCGAGTCCGAGTCCGCTGTCGCTCCAGCCCC 840
 Qy 1916 CTGTGGCTTGTCCAGCTCTGTCACCCCTGCTGCTTCACTCCAGGGGCGACAGCAGC 1975
 Db |||||
 839 CTGTGGCTTGTCCAGCTCTGTCACCCCTGCTGCTTCACTCCAGGGGCGACAGCAGC 780
 Qy 1976 CACTGAGTTCCTTCTTCTGAGTAAACAGTATGATAGCAGCTGGGCTAACAGCTAG 2035
 Db |||||
 779 CACTGAGTTCCTTCTTCTGAGTAAACAGTATGATAGCAGCTGGGCTAACAGCTAG 720
 Qy 2036 GCTTTGTGTTCTGGCAATTTGCTCAGCTCGATCCCTTAAAGCAATGGGAG 2095
 Db |||||
 719 GCTTTGTGTTCTGGCAATTTGCTCAGCTCGATCCCTTAAAGCAATGGGAG 660
 Qy 2096 GCCCCACTAGCCAGTTCAGGAACTCAACTGGAGGTAGTGGGGCCAGAGCTCC 2155
 Db |||||
 659 GCCCCACTAGCCAGTTCAGGAACTCAACTGGAGGTAGTGGGGCCAGAGCTCC 600
 Qy 2156 ACAGCTACTGATGGCCGAGCCAGCTTGGTCTGCTGGGAAAAGCTTTCGGGGCTTCTTGG 2215
 Db |||||
 599 ACAGCTACTGATGGCCGAGCCAGCTTGGTCTGCTGGTGTCCAGTCCGGAATCCACTGG 540
 Qy 2216 CAGATCTCATGCTCAGATAGGTGGGCAAGTCTTGTGTCACAGTGTGCTGCTGCTGCTG 2275
 Db |||||
 539 CAGATCTCATGCTCAGATAGGTGGGCAAGTCTTGTGTCACAGTGTGCTGCTGCTGCTG 480
 Qy 2276 TGAGGCTCATGCTGCTGGTGGTGTGCTGCTGGGAAAAGCTTTCGGGGCTTCTTGG 2335
 Db |||||
 479 TGAGGCTCATGCTGCTGGTGGTGTGCTGCTGGGAAAAGCTTTCGGGGCTTCTTGG 420
 Qy 2336 TTAACACAGAAAGAGAGGAGCTGTTGGGGTCTCTGAGCCCTCCCGTCTGCGG 2395
 Db |||||
 419 TTAACACAGAAAGAGAGGAGCTGTTGGGGTCTCTGAGCCCTCCCGTCTGCGG 360
 Qy 2396 TGAAGCAGGTTACTGCTTCTTAATGTTCTCATGTTTAAATGATTTTCTTTCTAAAG 2455
 Db |||||
 359 TGAAGCAGGTTACTGCTTCTTAATGTTCTCATGTTTAAATGATTTTCTTTCTAAAG 300
 Qy 2456 ATGTAACCTCCACACCTTCTCCAGTGGGFGACTTTTTCTAAAGTGGTGGAGTAT 2515
 Db |||||
 299 ATGTAACCTCCACACCTTCTCCAGTGGGFGACTTTTTCTAAAGTGGTGGAGTAT 240
 Qy 2516 CTGTGGGGTGGTGGCCCTTGGATGGGTCAAGTGGGTGAGAGTCTCGAGGAGTGG 2575
 Db |||||
 239 CTGTGGGGTGGTGGCCCTTGGATGGGTCAAGTGGGTGGGTTGAGAGTCTCGAGGAGTGG 180
 Qy 2576 GCGTTGAGCTCAAAAGTGTCTCTACTGCCATGTTTTTGTACCTGAAATAAAGCATATTTT 2635
 Db |||||
 179 GCGTTGAGCTCAAAAGTGTCTCTACTGCCATGTTTTGTACCTGAAATAAAGCATATTTT 120
 Qy 2636 GCACITGTTACTGTACCATAGTCCGAGAGGACTGTATGTGGATCTGTGCTTGGGT 2695
 Db |||||
 119 GCACITGTTACTGTACCATAGTCCGAGAGGACTGTATGTGGATCTGTGCTTGGGT 60
 Qy 2696 TAGAATGCAATAAATAACTCACATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAA 2754
 Db |||||
 59 TAGAATGCAATAAATAACTCACATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAA 1

RESULT 4
 US-09-989-920-99
 : Sequence 99, Application US/09989920
 : Patent No. US20020172957A1
 : GENERAL INFORMATION:
 : APPLICANT: Macina, Roberto
 : APPLICANT: Recipon, Hervé
 : APPLICANT: Chen, Sei-Yu
 : APPLICANT: Sun, Yongming
 : APPLICANT: Liu, Chenghua
 : TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Pro
 : FILE REFERENCE: DEX-0291
 : CURRENT APPLICATION NUMBER: US/09/989,920
 : PRIOR FILING DATE: 2001-11-21
 : PRIOR APPLICATION NUMBER: 60/252,500
 : PRIOR FILING DATE: 2000-11-22
 : NUMBER OF SEQ ID NOS: 284
 : SOFTWARE: PatentIn version 3.1
 : SEQ ID NO 99
 : LENGTH: 960
 : TYPE: DNA
 : ORGANISM: Homo sapien
 : FEATURE:
 : NAME/KEY: misc.feature
 : LOCATION: (716)..(716)
 : OTHER INFORMATION: a, c, g or t
 US-09-989-920-99

Query Match 22.2%; Score 612.4; DB 9; Length 960;
 Best Local Similarity 99.4%; Pred. No. 8.4e-157;
 Matches 646; Conservative 0; Mismatches 1; Indels 3; Gaps 3;

1658 GTACCTTGGGACTGAGACCTTTGGCTTCTGGAGCCTGCAAGCCTTCCCATGTG 1717
 Db 41 GTACCTTGGGACTGAGACCTTTGGCTTCTGGAGCCTGCAAGCCTTCCCATGTG 100

1718 TCCAGTCTCTTCTGCTAACAAGGGGACTGCTCACAGTGGCCTCAGCTGGGTTTT 1777
 Oy
 Db 101 TCCAGTCTCTTCTGCTAACAAGGGGACTGCTCACAGTGGCCTCAGCTGGGTTTT 160

1778 GAGGGGGCCCCCGGCTTCATAAGGGTATCTGGCCCTGAGAATTCGCACTGSC 1837
 Oy
 Db 161 GAGGGGGCCCCCGGCTTCATAAGGGTATCTGGCCCTGAGAATTCGCACTGSC 220

1838 ATTGAGGATGGAAGCTCAAAHTGGAAGGATCCACCGGAGATGGTCCGGATCCGG 1897
 Oy
 Db 221 ATTGAGGATGGAAGCTCAAAHTGGAAGGATCCACCGGAGATGGTCCGGATCCGG 280

1898 CTGTGGCCATCCAGCCCTCTGGCTGTCCAGCCTCTGTGCACCCTGGTGTCTTCACT 1957
 Oy
 Db 281 CTGTGGCCATCCAGCCCTCTGGCTGTCCAGCCTCTGTGCACCCTGGTGTCTTCACT 340

1958 CCAGGGGAGACAGCAGCCACTGACAGTTCCTTTCTTGTGAGTAAACAGTAGTAGCAG 2017
 Oy
 Db 341 CCAGGGGAGACAGCAGCCACTGACAGTTCCTTTCTTGTGAGTAAACAGTAGTAGCAG 400

2018 CTGGGCTAACAGGCTGGCTTTGTGTTCTGGATTTGGTTCAGCTTCTCACTCGATCCT 2077
 Oy
 Db 401 CTGGGCTAACAGGCTGGCTTTGTGTTCTGGATTTGGTTCAGCTTCTCACTCGATCCT 460

2078 CCTAAAGCAATGGGGAGGCCCCCACTAGCCAGTTTTTCAGGAAGTCAACTGGAGGTTA 2137
 Oy
 Db 461 CCTAAAGCAATGGGGAGGCCCCCACTAGCCAGTTTTTCAGGAAGTCAACTGGAGGTTA 520

2138 GATGGGGCCAGGTCGCCACA-GGTACTGATGGCCCGGACAGGTTGAGCTTCTCGTGT 2196
 Oy
 Db 521 GATGGGGCCAGGTCGCCACA-GGTACTGATGGCCCGGACAGGTTGAGCTTCTCGTGT 580

2197 CCAEFTCCGGAT-CCCACTTGCAGATCTCATGCTCTCAGATAGTGGGCAAGTTCCTTTG 2255
 Oy
 Db 581 CCAEFTCCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGCAAGTTCCTTTG 640

2256 TCACAGTCTGG-CTCTGTCTTGGGCCCTCATTTGCTGGCTGGTGTGCTC 2304
 Oy

Db 641 TCACAGTCTGGCCCTGTCTCTGAGGCCCTCATTTGCTGGCTGGTGTGCTC 690

RESULT 5
 US-10-172-118-2364/c
 : Sequence 2364, Application US/10172118
 : Publication No. US20030224374A1
 : GENERAL INFORMATION:
 : APPLICANT: Dai, Hongyue
 : APPLICANT: He, Yudong
 : APPLICANT: Linsley, Peter
 : APPLICANT: Mao, Mao
 : APPLICANT: Roberts, Chris
 : APPLICANT: Van 't Veer, Laura
 : APPLICANT: Van de Vijver, Marc
 : APPLICANT: Bernards, Rene
 : TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 : FILE REFERENCE: 9301-175-999
 : CURRENT APPLICATION NUMBER: US/10/172,118
 : CURRENT FILING DATE: 2002-06-14
 : PRIOR APPLICATION NUMBER: 60/380,770
 : PRIOR FILING DATE: 2002-05-14
 : NUMBER OF SEQ ID NOS: 2699
 : SEQ ID NO 2364
 : LENGTH: 524
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 : PUBLICATION INFORMATION:
 : DATABASE ACCESSION NUMBER: Contig46362
 : DATABASE ENTRY DATE: 2001-06-18
 US-10-172-118-2364

Query Match 19.0%; Score 524; DB 15; Length 524;
 Best Local Similarity 100.0%; Pred. No. 1e-132;
 Matches 524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

488 TCCCCCAATCTATGGTTCACAGCTAACAGATCGAGGGCACTGCTGCTAGTGGCCAG 547
 Oy
 Db 524 TCCCCCAATCTATGGTTCACAGCTAACAGATCTGAGGGCACTGCTGCTAGTGGCCAG 465

548 GGCTGCACCTGTCATCCCCGGCTCTGCCACTTTAGGGCCCTTCTAGAGCAGTGCCTTAG 607
 Oy
 Db 464 GGCTGCACCTGTCATCCCCGGCTCTGCCACTTTAGGGCCCTTCTAGAGCAGTGCCTTAG 405

608 GAAGTAGCTCTGAGCAGTGGTTTTCTGCTCTCTGTGAGGGCAGCTGATGGATAAGGTG 667
 Oy
 Db 404 GAAGTAGCTCTGAGCAGTGGTTTTCTGCTCTCTGTGAGGGCAGCTGATGGATAAGGTG 345

668 GGGAAAGGACGGTCACTGCTTGGGCCCCCAGCTGGCCAGCTGGCCAGTGGGAAACCATAACC 727
 Oy
 Db 344 GGGAAAGGACGGTCACTGCTTGGGCCCCCAGCTGGCCAGCTGGCCAGTGGGAAACCATAACC 285

728 ATGTCCCCCAGCGAAAGGGCCAGAGTGGGAAACCTGTCTCTATGCCCTTCTGCTGAGGAGC 787
 Oy
 Db 284 ATGTCCCCCAGCGAAAGGGCCAGAGTGGGAAACCTGTCTCTATGCCCTTCTGCTGAGGAGC 225

788 CTTGAGTGGGACAGCAGGGCCAGGGGAAATTTTCAGGCCCTTCATCAAAGAGAACAAACAT 847
 Oy
 Db 224 CTTGAGTGGGACAGCAGGGCCAGGGGAAATTTTCAGGGCTTCATCAAAGAGAACAAACAT 165

848 CTTGAGTCCCGACCCCTCATCTGTATCAGCACTTACGGGTGTGATCTGCCCTTGTCA 907
 Oy
 Db 164 CTTGAGTCCCGACCCCTCATCTGTATCAGCACTTACGGGTGTGATCTGCCCTTGTCA 105

908 GGTAGCATACGGTGGCCACCTGCCACCTGGCTGTTTATGGCACTGATTTATGATAGG 967
 Oy
 Db 104 GGTAGCATACGGTGGCCACCTGCCACCTGGCTGTTTATGGCACTGATTTATGATAGG 45

968 GAATATTTCTTTGAACCCCAATGAAGTGTFTTCTCCCCCATCAC 1011
 Oy
 Db 44 GAATATTTCTTTGAACCCCAATGAAGTGTFTTCTCCCCCATCAC 1

US-10-074-475-1
 ; Sequence 1, Application US/10074475
 ; Publication No. US20030092898A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Salceda, Susana
 ; APPLICANT: Macina, Roberto
 ; APPLICANT: Hu, Ping
 ; APPLICANT: Recipon, Herve
 ; APPLICANT: Karra, Kalpana
 ; APPLICANT: Cafferkey, Robert
 ; APPLICANT: Sun, Yongming
 ; APPLICANT: Liu, Chenghua
 ; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific
 ; FILE REFERENCE: DEX-0313
 ; CURRENT APPLICATION NUMBER: US/10/074,475
 ; PRIOR FILING DATE: 2002-02-13
 ; PRIOR APPLICATION NUMBER: 60/268,292
 ; PRIOR FILING DATE: 2001-02-13
 ; NUMBER OF SEQ ID NOS: 295
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 591
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; US-10-074-475-1

Query Match 17.6%; Score 483.8; DB 14; Length 591;
 Best Local Similarity 97.5%; Pred. No. 1.2e-121;
 Matches 555; Conservative 0; Mismatches 7; Indels 7; Gaps 6;

QY 1735 CTACAAAGGGGACTGCTCAGAGTGGCCCTCAGACTGGCTGGTTGGGGGGCCGCCCGG 1794
 Db 12 CTACAAAGGGGACTGCTCAGAGTGGCCCTCAGACTGGCTGGTTGGGGGGCCGCCCGG 71

QY 1795 CCCTCCATAAAGGGTATCCCTGGCCCTGAGAAATTCGCATCTGCCATTGGA-GGATGGACAG 1853
 Db 72 CCCTCCATAAAGGGTATCCCTGGCCCTGAGAAATTCGCATCTGCCATTGGA-GGATGGACAG 131

QY 1854 CTTCAAATGGAAG-GAGTCCACCGGGAGATGGTCCGAGTCC-GGCTGGCCATCCAG 1911
 Db 132 CTTCAAATGGAAGTGGTCCCGGGAGATGGTCCCGAGGTTCCAGGCTGGCCATCCAG 191

QY 1912 CCCCCTGGCTTGTCCAGCCCTCTGCACCCTGGTCTTCCTCACTCCAGGGGACAGAG 1971
 Db 192 CCCCCTGGCTTGTCCAGCCCTCTGCACCCTGGTCTTCCTCACTCCAGGGGACAGAG 251

QY 1972 CAGCCACTGCAGTTCCTTTCTTCTGGTAG-TAACAGTAGATAGCAGCTGGGGCTAAACAG 2030
 Db 252 TAGCCACTGCAGTTCCTTTCTTCTGGTAGTAAACAGTAGATAGCAGCTGGGGCTAAACAG 311

QY 2031 GCTAGGCTTTGTTCTGGGCAATTTGGTCCAGCTTCTCACTCGATCCCTCCCTAAAGCAATG 2090
 Db 312 GCTAGGCTTTGTTCTGGGCAATTTGGTCCAGCTTCTCACTCGATCCCTCCCTAAAGCAATG 371

QY 2091 GGGAGCCCCCACTAGCCAGTTTTCCAGAACTCAACTGGGAGTTAGATGGGGCCAG- 2149
 Db 372 GGGAGCCCCCACTAGCCAGTTTTCCAGAACTCAACTGGGAGTTAGATGGGGCCAG 431

QY 2150 GGTCCACAGCTACTGATGGCCCGGACCCAGTTGAGCTT-CCTGGTCTCAGTGGGAT 2207
 Db 432 GGTCCACAGCTACTGATGGCCCGGACCCAGTTGAGCTT-CCTGGTCTCAGTGGGAT 491

QY 2208 CCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTACAGTGTCTGG 2267
 Db 492 CCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTACAGTGTCTGG 551

QY 2268 CTCGTGCTGAGGCCTCATGCTGGCTGG 2296
 Db 552 CTCGTGCTGAGGCCTCATGCTGGCTGG 580

US-10-342-887-2364/c
 ; Sequence 2364, Application US/10342887
 ; Publication No. US20040058340A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dai, Hongyue
 ; APPLICANT: He, Yudong
 ; APPLICANT: Linsley, Peter S.
 ; APPLICANT: Mac, Mao
 ; APPLICANT: Roberts, Christopher J.
 ; APPLICANT: Van 't Veer, Laura Johanna
 ; APPLICANT: Van de Vijver, Marc J.
 ; APPLICANT: Bernards, Rene
 ; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 ; FILE REFERENCE: 9301-188-999
 ; CURRENT APPLICATION NUMBER: US/10/342,887
 ; PRIOR FILING DATE: 2003-01-15
 ; PRIOR APPLICATION NUMBER: 60/298,918
 ; PRIOR FILING DATE: 2001-06-18
 ; PRIOR APPLICATION NUMBER: 60/380,710
 ; PRIOR FILING DATE: 2002-05-14
 ; PRIOR APPLICATION NUMBER: 10/172,118
 ; PRIOR FILING DATE: 2002-06-14
 ; NUMBER OF SEQ ID NOS: 2699
 ; SEQ ID NO 2364
 ; LENGTH: 524
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-342-887-2364

Query Match 19.0%; Score 524; DB 15; Length 524;
 Best Local Similarity 100.0%; Pred. No. 1e-132;
 Matches 524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 488 TCCCCCAATCTATGGGTCACAGCTAACAGATCTGAGGGCAACTGCTGCTAGTGGCCAG 547
 Db 524 TCCCCCAATCTATGGGTCACAGCTAACAGATCTGAGGGCAACTGCTGCTAGTGGCCAG 465

QY 548 GCCTGCACCTGCCATCCCCGGCTCTGCCACTTTAGGGCTTTAGAGGCAAGTGTCCCTTAG 607
 Db 464 GCCTGCACCTGCCATCCCCGGCTCTGCCACTTTAGGGCTTTAGAGGCAAGTGTCCCTTAG 405

QY 608 GAAGTAGCTCTGAGGATGGTTTCTGCTCCCTGTGCAGGCGAGCTGATGGATAAGGTG 667
 Db 404 GAAGTAGCTCTGAGGATGGTTTCTGCTCCCTGTGCAGGCGAGCTGATGGATAAGGTG 345

QY 668 GGGAAAGACGGTCAAGTCTGGGCCCCAGCTGGCCAGCTGGCGATGGGAAACCAAAACC 727
 Db 344 GGGAAAGACGGTCAAGTCTGGGCCCCAGCTGGCCAGCTGGCGATGGGAAACCAAAACC 285

QY 728 ATGTCCTCCCGCAGGAGGCGAGTGGAACCTGTCCTCATGCTCCCTCCCTGAGGAGC 787
 Db 284 ATGTCCTCCCGCAGGAGGCGAGTGGAACCTGTCCTCATGCTCCCTCCCTGAGGAGC 225

QY 788 CTTGAGTGGCCAGCAGGGCCAGGGGAAGTTTTTCAGGCCCTTCACTAAAGAGAAACAACAT 847
 Db 224 CTTGAGTGGCCAGCAGGGCCAGGGGAAGTTTTTCAGGCCCTTCACTAAAGAGAAACAACAT 165

QY 848 CCTCAGCTCCGCCACCCCTCATCCCTATCAGCACTTACCGGTGTGACCTGCTGCTTGTCA 907
 Db 164 CCTCAGCTCCGCCACCCCTCATCCCTATCAGCACTTACCGGTGTGACCTGCTGCTTGTCA 105

QY 908 CTTAGCATCCGTTGGGCCACTGGCCACTGGTGTGTTATGCCACTGATTTATGATPAGG 967
 Db 104 CTTAGCATCCGTTGGGCCACTGGCCACTGGTGTGTTATGCCACTGATTTATGATPAGG 45

QY 968 GAAATATTATCTTTGAAACCAATGAAGTGTTCCTCCCCCAATCAC 1011
 Db 44 GAAATATTATCTTTGAAACCAATGAAGTGTTCCTCCCCCAATCAC 1

US-10-609-021-176
 Sequence 176, Application US/10609021
 Publication No. US20040086913A1
 GENERAL INFORMATION:
 APPLICANT: Williams, Lewis T.
 APPLICANT: Escobedo, Jaime A.
 APPLICANT: Innis, Michael A.
 APPLICANT: Garcia, Pablo Dominguez
 APPLICANT: Sudduth-Klinger, Julie
 APPLICANT: Reinhard, Christoph
 APPLICANT: He, Zhijun
 APPLICANT: Randazzo, Filippo
 APPLICANT: Kennedy, Giulia C.
 APPLICANT: Pot, David
 APPLICANT: Kassam, Altaf
 APPLICANT: Lamson, George
 APPLICANT: Drmanac, Radoje
 APPLICANT: Dickson, Mark
 APPLICANT: Labat, Ivan
 APPLICANT: Jones, Lee William
 TITLE OF INVENTION: Human Genes and Gene Expression Products
 FILE REFERENCE: XVI
 FILE REFERENCE: 2300-1625CON
 CURRENT APPLICATION NUMBER: US/10/609,021
 CURRENT FILING DATE: 2003-06-26
 PRIOR APPLICATION NUMBER: 60/192,583
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: 09/819,150
 PRIOR FILING DATE: 2001-03-27
 NUMBER OF SEQ ID NOS: 324
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 176
 LENGTH: 395
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-609-021-176

Query Match 13.0%; Score 357.4; DB 16; Length 395;
 Best Local Similarity 96.9%; Pred. No. 4.2e-87;
 Matches 375; Conservative 0; Mismatches 11; Indels 1; Gaps 1;
 QY 1216 CAGACCTCCATACCTCCATCCCTGGTGGATATTTAAAGAAAGCCCTCAGACAGTAGGG 1275
 DB 9 CAGACCTCCATACCTCCATCCCTGGTGGATATTTAAAGAAAGCCCTCAGACAGTAGGG 68
 QY 1276 C-TTTTTTAAAGAAATAAAAGACTTTGGTTTGGCTTGGAAAGCAGGGGAAGCATTTCAGAT 1334
 DB 69 CTTTTTTTAAAGAAATAAAAGACTTTGGTTTGGCTTGGAAAGCAGGGGAAGCATTTCAGAT 128
 QY 1335 GAGCGGTTTCGCATTAACCCCTGGCTATACGCAATCTGGTCTCTGTGGCTGGCGAGC 1394
 DB 129 GAGCGGTTTCGCATTAACCCCTGGCTATACGCAATCTGGTCTCTGTGGCTGGCGAGC 188
 QY 1395 CCCCTTGGAAAGTTCTGGTCTTCAGCTGCTCTCTGAGAGTCCACCCTGGCTGGT 1454
 DB 189 CCCCTTGGAAAGTTCTGGTCTTCAGCTGCTCTCTGAGAGTCCACCCTGGCTGGT 248
 QY 1455 GGGAAATGAGAGCCCTTTCCTTTCCCTCCCGCTGCTTCCTGTTCCCTGGGACCCCG 1514
 DB 249 GGGAAATGAGAGCCCTTTCCTTTCCCTCCCGCTGCTTCCTGTTCCCTGGGACCCCG 308
 QY 1515 TGGCCCTTGGTCTGCATCCCTGGCCAGTCCCTCAGGTTGATGGTGGAGAGGACT 1574
 DB 309 TGGCCCTTGGTCTGCATCCCTGGCCAGTCCCTCAGGTTGATGGTGGAGAGGACT 368
 QY 1575 TTGAGCAGTGGTGGCGAGCAGTGGCCT 1601
 DB 369 TTGAGCAGTGGTGGCGAGCAGTGGCCT 395

RESULT 9
 US-10-116-712-429
 Sequence 429, Application US/10116712

Publication No. US20030194764A1
 GENERAL INFORMATION:
 APPLICANT: Bangur, Chaitanya S.
 APPLICANT: Switzer, Ann
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
 FILE REFERENCE: 210121.568
 CURRENT APPLICATION NUMBER: US/10/116,712
 CURRENT FILING DATE: 2002-04-07
 NUMBER OF SEQ ID NOS: 670
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 429
 LENGTH: 295
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-116-712-429
 Query Match 10.7%; Score 295; DB 15; Length 295;
 Best Local Similarity 100.0%; Pred. No. 4.6e-70;
 Matches 295; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1723 CTGCTTCTCTCTCAAAAGGGGACTGCTCAGAGTGGCTCAGCTTGGTGGTTTGAGGG 1782
 DB 1 CTGCTTCTCTCTCAAAAGGGGACTGCTCAGAGTGGCTCAGCTTGGTGGTTTGAGGG 60
 QY 1783 GCGGCCCGCCCGCCCTCCATAAAGGGTATCCCTGGGCTGAGAAATCTGCATCTGCCATTGG 1842
 DB 61 GCGGCCCGCCCGCCCTCCATAAAGGGTATCCCTGGGCTGAGAAATCTGCATCTGCCATTGG 120
 QY 1843 AGGATGGACAGCCTCAAAATGGAAGAGTCCCAACGGGAAGTGGTCCGAGGTCGGCTGTG 1902
 DB 121 AGGATGGACAGCCTCAAAATGGAAGAGTCCCAACGGGAAGTGGTCCGAGGTCGGCTGTG 180
 QY 1903 GGCATCCAGCCCGCTGGCTTGTCCAGCCTCTGTGCAACCCCTGCTTCACTCCAGG 1962
 DB 181 GGCATCCAGCCCGCTGGCTTGTCCAGCCTCTGTGCAACCCCTGCTTCACTCCAGG 240
 QY 1963 GGCAGACAGCAGCCACTGCAGTTCCTTTCTTGGTGAAGTAAACAGTAGTATAGCAG 2017
 DB 241 GGCAGACAGCAGCCACTGCAGTTCCTTTCTTGGTGAAGTAAACAGTAGTATAGCAG 295

RESULT 10
 US-09-989-920-90/c
 Sequence 90, Application US/09989920
 Patent No. US20020172957A1
 GENERAL INFORMATION:
 APPLICANT: Macina, Roberto
 APPLICANT: Reclipon, Herve
 APPLICANT: Chen, Sei-Yu
 APPLICANT: Sun, Yongming
 APPLICANT: Liu, Chenghua
 TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Prote
 FILE REFERENCE: DEX-0291
 CURRENT APPLICATION NUMBER: US/09/989,920
 CURRENT FILING DATE: 2001-11-21
 PRIOR APPLICATION NUMBER: 60/252,500
 PRIOR FILING DATE: 2000-11-22
 NUMBER OF SEQ ID NOS: 284
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 90
 LENGTH: 251
 TYPE: DNA
 ORGANISM: Homo sapien
 US-09-989-920-90
 Query Match 8.1%; Score 224.4; DB 9; Length 251;
 Best Local Similarity 98.8%; Pred. No. 9.6e-51;
 Matches 237; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
 QY 2381 CCTCCCGTGGTGGGGAAGCAGCGTTACTGTGTTCTCTAATGTTCAATGTTTAAAT 2440
 DB 251 CCTCCCGTGGTGGGGAAGCAGCGTTACTGTGTTCTCTAATGTTTAAAT 192

Qy 2441 GATTCCTTTTAAAGATGTAACCTCCACACCTTTTCCAGATGGGTGACTCTTTTCTAA 2500
 Db 191 GATTCCTTTTAAAGATGTAACCTCCACACCTTTTCCAGATGGGTGACTCTTTTCTAA 132
 Qy 2501 AGGTGGTGGAGTATCTGTGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGGTGGAGA 2560
 Db 131 AGGTGGTGGAGTATCTGTGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGGTGGAGA 72
 Qy 2561 GGTCCTGGGGAGGT--GGGCGTTGAGCTCAAAGTTGTCCTACTCCCATGTTTTGTACCT 2618
 Db 71 GGTCTGGGGAGGTGGCGCGCTTGGCTCAAAGTTGTCCTACTCCCATGTTTTGTACCT 12

RESULT 11
 US-10-102-524-1276/c
 ; Sequence 1276, Application US/10102524
 ; Publication No. US20030109434A
 ; GENERAL INFORMATION:
 ; APPLICANT: Algate, Paul A.
 ; APPLICANT: Mannion, Jane
 ; APPLICANT: Gaiger, Alexander
 ; APPLICANT: Gordon, Brian
 ; APPLICANT: Harlocker, Susan L.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
 ; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF KIDNEY CANCER
 ; FILE REFERENCE: 210121.572
 ; CURRENT APPLICATION NUMBER: US/10/102.524
 ; CURRENT FILING DATE: 2002-03-19
 ; NUMBER OF SEQ ID NOS: 1863
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1276
 ; LENGTH: 161
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-102-524-1276

Query Match 5.8%; Score 161; DB 15; Length 161;
 Best Local Similarity 100.0%; Pred. No. 1.8e-33;
 Matches 161; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1727 TCTTCCTGCTACAAAGGGGACTGCTACAGTGGCCCTCAGCTTGGTGGTTTTGAGGGCCG 1786
 Db 161 TCTTCCTGCTACAAAGGGGACTGCTACAGTGGCCCTCAGCTTGGTGGTTTTGAGGGCCG 102
 Qy 1787 CCCCCTGGCCCTCATAGGGTATCTCGGGCTGAGAAATCTGCATCTGCCATTTGGAGGA 1846
 Db 101 CCCCCTGGCCCTCATAGGGTATCTCGGGCTGAGAAATCTGCATCTGCCATTTGGAGGA 42
 Qy 1847 TGGACAGCTCAAATGGAAGGAGTCCACGGGAGATGGGTC 1887
 Db 41 TGGACAGCTCAAATGGAAGGAGTCCACGGGAGATGGGTC 1

RESULT 12
 US-09-854-867-10
 ; Sequence 10, Application US/09854867
 ; Publication No. US20030224356A1
 ; GENERAL INFORMATION:
 ; APPLICANT: JOAN, KNOLL H
 ; APPLICANT: ROGAN, PETER K
 ; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING
 ; FILE REFERENCE: 30307
 ; CURRENT APPLICATION NUMBER: US/09/854.867
 ; CURRENT FILING DATE: 2003-05-08
 ; NUMBER OF SEQ ID NOS: 613
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 10
 ; LENGTH: 2285
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: repeat_region

LOCATION: (1)..(2285)
 OTHER INFORMATION: cheshire
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (377)..(377)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (580)..(580)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (651)..(651)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (664)..(664)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (725)..(725)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (728)..(728)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1095)..(1095)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1151)..(1151)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1281)..(1281)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1351)..(1351)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1370)..(1370)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1385)..(1385)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1885)..(1885)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1912)..(1912)
 OTHER INFORMATION: n is a, c, g or t
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1990)..(1990)
 OTHER INFORMATION: n is a, c, g or t
 US-09-854-867-10

Query Match 3.4%; Score 93.6; DB 10; Length 2285;
 Best Local Similarity 67.3%; Pred. No. 2.5e-14;
 Matches 183; Conservative 1; Mismatches 70; Indels 18; Gaps 3;
 Qy 957 TTTATGATAGGAATATTTATCTTTGAAACCCCAATGAAGTGTTCCTCCCAATCACAATAA 1016
 Db 2016 TTGATGATAGGAACACACACTTTGACCCCAATTTAGCAAAATGTATCCCAAAAAGA 2075
 Qy 1017 AAAAAATCTTATTTTTAGTAGACATGTATTTACCAAAAATAGTACTCAATTTGTAT 1076

Db 2076 ATTCCATCTCTCANTAGTAGACCTGTAATTA--CAAAAAATTGTACTCAATTAATTAATW 2133
 Qy 1077 TTTCGATTTTATCAAT-----TAAAAATTTGGAAATTTGTTGCTCTTA----- 1122
 Db 2134 TTATTAATTTTGAATTCATCAATAAAAAATTTGGAAATTTTCTCTGTTATATAAGT 2193
 Qy 1123 --CGCCACATAATATGATTTGCTCTGCTCTGAAAGCCCAAAATTTTACCGTCT 1180
 Db 2194 ACCTACATAATATCTGATTTGCTCTGCTCTGAAAGCCCAAAATTTTACTATCT 2253
 Qy 1181 AGCCCGTTACAGAAAAGTCTGCTACTG 1212
 Db 2254 GGCCCTTTACAGAAAAGTCTGCTACTG 2285

RESULT 13
 US-09-764-878-292/c
 ; Sequence 292, Application US/09764878
 ; Patent No. US20020090615A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PA121
 ; CURRENT APPLICATION NUMBER: US/09/764,878
 ; CURRENT FILING DATE: 2001-01-17
 ; Prior application data removed - consult PALM or file wrapper
 ; NUMBER OF SEQ ID NOS: 428
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 292
 ; LENGTH: 32038
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-764-878-292

Query Match 2.7%; Score 75; DB 9; Length 32038;
 Best Local Similarity 65.9%; Pred. No. 1.5e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
 Qy 1013 AAAAAAAATTTCTATTTTATAGTACATGTAATTTACCAAAAATGTAATTTTCAATTAAT 1072
 Db 28877 AAATATTTAATCTTTTCATAGTAAACCCGTAATACAAAATAATGTTCTAAATTAAT 28818
 Qy 1073 GATTTTGGATTTATCAATTTAAAAAATTTGGAAATTTGTTGCTCTTACCC----- 1125
 Db 28817 G--TTTGAATTTTGTCAATAAAAATTTTCGTGCAAAATTTAATTTCTCTAGTTATTA 28760
 Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAAATTTACCGT 1178
 Db 28759 GATCTACATAACAATCTCAGTTTACCTTTAGCCCAAAAGCCCTAAATAATTTACTAT 28700

RESULT 14
 US-10-079-854-292/c
 ; Sequence 292, Application US/10079854
 ; Publication No. US20030054369A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PA121C1
 ; CURRENT APPLICATION NUMBER: US/10/079,854
 ; CURRENT FILING DATE: 2002-02-22
 ; Prior application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 428
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 292
 ; LENGTH: 32038
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

US-10-079-854-292
 Query Match 2.7%; Score 75; DB 14; Length 32038;
 Best Local Similarity 65.9%; Pred. No. 1.5e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
 Qy 1013 AAAAAAAATTTCTATTTTATAGTACATGTAATTTACCAAAAATGTAATTTTCAATTAAT 1072
 Db 28877 AAATATTTAATCTTTTCATAGTAAACCCGTAATACAAAATAATGTTCTAAATTAAT 28818
 Qy 1073 GATTTTGGATTTATCAATTTAAAAAATTTGGAAATTTGTTGCTCTTACCC----- 1125
 Db 28817 G--TTTGAATTTTGTCAATAAAAATTTTCGTGCAAAATTTAATTTCTCTAGTTATTA 28760
 Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAAATTTACCGT 1178
 Db 28759 GATCTACATAACAATCTCAGTTTACCTTTAGCCCAAAAGCCCTAAATAATTTACTAT 28700

RESULT 15
 US-09-984-429-498
 ; Sequence 498, Application US/09984429
 ; Publication No. US2004001032A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: 53 Human Secreted Proteins
 ; FILE REFERENCE: P2018P2
 ; CURRENT APPLICATION NUMBER: US/09/984,429
 ; CURRENT FILING DATE: 2001-10-30
 ; PRIOR APPLICATION NUMBER: 60/244,591
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/288,143
 ; PRIOR FILING DATE: 1999-04-08
 ; PRIOR APPLICATION NUMBER: PCT/US98/21142
 ; PRIOR FILING DATE: 1998-10-08
 ; PRIOR APPLICATION NUMBER: 60/061,463
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,529
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/071,498
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,527
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,536
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,532
 ; PRIOR FILING DATE: 1997-10-09
 ; NUMBER OF SEQ ID NOS: 727
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 498
 ; LENGTH: 32844
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-984-429-498

Query Match 2.7%; Score 75; DB 11; Length 32844;
 Best Local Similarity 65.9%; Pred. No. 1.5e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
 Qy 1013 AAAAAAAATTTCTATTTTATAGTACATGTAATTTACCAAAAATGTAATTTTCAATTAAT 1072
 Db 3968 AAATATTTAATCTTTTCATAGTAAACCCGTAATACAAAATAATGTTCTAAATTAAT 4027
 Qy 1073 GATTTTGGATTTATCAATTTAAAAAATTTGGAAATTTGTTGCTCTTACCC----- 1125
 Db 4028 G--TTTGAATTTTGTCAATAAAAATTTTCGTGCAAAATTTAATTTCTCTAGTTATTA 4085
 Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAAATTTACCGT 1178

RESULT 16
 US-09-984-429-498
 ; Sequence 498, Application US/09984429
 ; Publication No. US2004001032A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: 53 Human Secreted Proteins
 ; FILE REFERENCE: P2018P2
 ; CURRENT APPLICATION NUMBER: US/09/984,429
 ; CURRENT FILING DATE: 2001-10-30
 ; PRIOR APPLICATION NUMBER: 60/244,591
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/288,143
 ; PRIOR FILING DATE: 1999-04-08
 ; PRIOR APPLICATION NUMBER: PCT/US98/21142
 ; PRIOR FILING DATE: 1998-10-08
 ; PRIOR APPLICATION NUMBER: 60/061,463
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,529
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/071,498
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,527
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,536
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/061,532
 ; PRIOR FILING DATE: 1997-10-09
 ; NUMBER OF SEQ ID NOS: 727
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 498
 ; LENGTH: 32844
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-984-429-498

Db 4086 GTATCTACATACAAATCTCAGTTTTTACCTCTTAGCCCAAAAGCCTAAAATATTTACTAT 4145
 QY 1179 CTAGCCGTTACAGAAAAGTCTGCTGACTACTGAGCCAGACC 1221
 Db 4146 CTGCCCTTTATAGAAAAAGTTTCCCTGACCTCTGCCCTAGACC 4188

Search completed: November 29, 2004, 15:19:46
 Job time : 2343 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 1281 Seconds

(without alignments)
11285.641 Million cell updates/sec

Title: US-09-989-920-100

Perfect score: 2754

Sequence: 1 gccagagagcctcagctt.....aaaaaaaaaagatggggcc 2754

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Gereseq_23Sep04:**

- 1: Geneseq1980s:**
- 2: Geneseq1990s:**
- 3: Geneseq2000s:**
- 4: Geneseq2001as:**
- 5: Geneseq2001bs:**
- 6: Geneseq2002as:**
- 7: Geneseq2002bs:**
- 8: Geneseq2003as:**
- 9: Geneseq2003bs:**
- 10: Geneseq2003cs:**
- 11: Geneseq2003ds:**
- 12: Geneseq2004s:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	2754	100.0	2754	6	Abx92058 Lung spec
2	2754	100.0	2754	6	Abt07523 Human bre
3	2397.4	87.1	2399	6	Abx92049 Lung spec
4	612.4	22.2	960	6	Abx92057 Lung spec
5	554	20.1	611	5	Abv54530 Human pro
6	483.8	17.6	591	6	Abt07522 Human bre
7	357.4	13.0	395	4	Aas59058 Human can
8	295	10.7	295	10	Add49697 Human lun
9	224.4	8.1	251	6	Abx92048 Lung spec
10	76.6	2.8	736	3	Aaz35057 Pluripote
11	75	2.7	32038	4	Aak90877 Human dig
12	75	2.7	32038	4	Aak89980 Human dig
13	75	2.7	32038	5	Aas30028 Human lun
14	75	2.7	32038	10	Abj33365 Human nov
15	75	2.7	32844	12	Adj12644 DNA fragm
16	70.8	2.6	10410	12	Adn37124 DNA seque
17	64.8	2.4	4153	4	Aak66121 Human imm
18	58.8	2.1	120670	12	Adq59167 WSI-H car
19	56.6	2.1	2000	8	Ada71938 Rice gene
20	56.2	2.0	10472	12	Adj12647 DNA fragm
21	56.2	2.0	240823	10	Add69391 Human PG-

C	22	56.2	2.0	240825	4	Aaf24497	Human PG-
C	23	56.2	2.0	240825	6	Abq81802	Human PG-
C	24	55.8	2.0	147419	6	Abk83574	Human CDN
C	25	55	2.0	200620	12	Ado56277	Human pro
C	26	51.4	1.9	75033	12	Adp66763	Human end
C	27	50.8	1.8	1940	10	Adas2599	Human cod
C	28	50.8	1.8	2193	8	Abx05077	Human nov
C	29	50.8	1.8	2337	6	Aal49331	Human ncl
C	30	50.6	1.8	9544	4	Aal04799	Human rep
C	31	50.6	1.8	9544	4	AbL97693	Human tes
C	32	50.6	1.8	32476	4	AAK85314	Human imm
C	33	50.2	1.8	2000	8	Ada71938	Rice Gene
C	34	49.4	1.8	495	6	Abn79060	Human ORF
C	35	49	1.8	3365	11	Adm02732	Human CDN
C	36	49	1.8	6330	4	AAAS4431	11-cis re
C	37	49	1.8	6330	10	ADD71027	Human ret
C	38	49	1.8	6330	12	ADQ19466	Human sof
C	39	49	1.8	19806	6	ABN89476	Human deh
C	40	47.4	1.7	14024	4	AAAS36381	Human car
C	41	47.4	1.7	14024	5	AAAS30157	Human lun
C	42	47.4	1.7	14024	10	ADB33494	Human nov
C	43	47.4	1.7	14024	10	ADE47075	Human car
C	44	47.4	1.7	28965	10	ADC86716	Human GPC
C	45	47	1.7	265	3	AAC23203	Human sec

ALIGNMENTS

RESULT 1
 ABX92058
 ID ABX92058 standard; CDNA; 2754 BP.
 XX
 AC ABX92058;
 XX
 DT 08-MAY-2003 (first entry)
 XX
 DE Lung specific nucleic acid (LSNA) #100.
 XX
 KW Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;
 KW cancer monitoring; cancer staging; cancer imaging; lung cancer;
 KW non-cancerous diseases of the lung; transgenic animal; Gene; ss.
 XX
 OS Homo sapiens.
 XX
 XX
 PN WO200268633-A2.
 XX
 XX
 PD 06-SEP-2002.
 XX
 PF 21-NOV-2001; 2001WO-US043612.
 XX
 PR 22-NOV-2000; 2000US-0252500P.
 XX
 PA (DIAD-) DIRADEXUS INC.
 XX
 PI Macina RA, Recipon H, Chen S, Sun Y, Liu C;
 XX
 DR WPI; 2002-713376/77.
 XX
 PT New isolated human nucleic acid molecule and polypeptide, useful for
 PT identifying, diagnosing, monitoring, staging, imaging and treating lung
 PT cancer and non-cancerous diseases of the lung.
 XX
 PS Claim 1; Page 246-248; 389pp; English.
 XX
 CC The invention describes an isolated human nucleic acid (I) encoding any
 CC of 120 10-1533 residue amino acid sequences (S1), given in the
 CC specification, comprising any of 164 179-12421 base pair sequences (S2),
 CC given in the specification. The methods and compositions of the present
 CC invention are useful for identifying, diagnosing, monitoring, staging,
 CC imaging and treating lung cancer and non-cancerous diseases of the lung.
 CC They are also used for identifying lung tissue, monitoring and
 CC identifying and/or designing antagonists of the polypeptide of the

CC invention, gene therapy, production of transgenic animals and production
of engineered lung tissue for treatment and research. This sequence
CC encodes a lung specific nucleic acid
XX

SQ Sequence 2754 BP; 557 A; 720 C; 753 G; 724 T; 0 U; 0 Other;

Query Match 100.0%; Score 2754; DB 6; Length 2754;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2754; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Table with 4 columns: Line number, Label (Qy, Db), Sequence, and Score. The table contains sequence alignment data for various line numbers from 961 to 990.

Table with 4 columns: Line number, Label (Qy, Db), Sequence, and Score. This table continues the sequence alignment data from line 961 to 990.

QY 2041 GTGTTCTGGCATTGGTTCAGCTTCTCAGTCCGATCCTCCCTAAAGCAATGGGAGGCC 2100
 Db 2041 GTGTTCTGGCATTGGTTCAGCTTCTCAGTCCGATCCTCCCTAAAGCAATGGGAGGCC 2100
 QY 2101 CACTAGCCCAAGTTTTCAGGAAGTCACTGGAGGTTAGATGGGGCCAGGTTCCACAGC 2160
 Db 2101 CACTAGCCCAAGTTTTCAGGAAGTCACTGGAGGTTAGATGGGGCCAGGTTCCACAGC 2160
 QY 2161 TACTGATGGCCGAGCCAGGTTGAGCTTCTGTGTCCAGTCCGATCCCACTTCAGAT 2220
 Db 2161 TACTGATGGCCGAGCCAGGTTGAGCTTCTGTGTCCAGTCCGATCCCACTTCAGAT 2220
 QY 2221 CTATGCTCAGATAGTGGGCAAGTTCCTTTGTCACAGTCTGGCTGTCTGCTGAGG 2280
 Db 2221 CTATGCTCAGATAGTGGGCAAGTTCCTTTGTCACAGTCTGGCTGTCTGCTGAGG 2280
 QY 2281 CCTCATGCTGGTGGTGGTCTGCTGGGAAAGTTTGGGGCTTGTCTTGGTTAAC 2340
 Db 2281 CCTCATGCTGGTGGTGGTCTGCTGGGAAAGTTTGGGGCTTGTCTTGGTTAAC 2340
 QY 2341 CACAGAGAGAGGGGACTGTTGGGGTGCCTCTCGAGCCTCCCGTCTGGGTGAA 2400
 Db 2341 CACAGAGAGAGGGGACTGTTGGGGTGCCTCTCGAGCCTCCCGTCTGGGTGAA 2400
 QY 2401 GCAGGTTACTGTGTTCTTAATGTTCAATGATATTAATAATGATTTCTTAAGATGA 2460
 Db 2401 GCAGGTTACTGTGTTCTTAATGTTCAATGATATTAATAATGATTTCTTAAGATGA 2460
 QY 2461 ACCTCCACRCTTTCACAGATGGGTGACTCTTTTCTAAGTGTGGGAGTATCTGTC 2520
 Db 2461 ACCTCCACRCTTTCACAGATGGGTGACTCTTTTCTAAGTGTGGGAGTATCTGTC 2520
 QY 2521 GGGGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGGTCCTGGGGAGGTGGGCGT 2580
 Db 2521 GGGGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGGTCCTGGGGAGGTGGGCGT 2580
 QY 2581 TGAGCTCAAAGTTGTCCTACTGCCATGTTTTTGTACTGCTGAAATAAAGCAATTTTGC 2640
 Db 2581 TGAGCTCAAAGTTGTCCTACTGCCATGTTTTTGTACTGCTGAAATAAAGCAATTTTGC 2640
 QY 2641 TGTTACTGATACATAGTGGGACGAGAGTCTGATGTTGGGATCTGTTGGTTAGAA 2700
 Db 2641 TGTTACTGATACATAGTGGGACGAGAGTCTGATGTTGGGATCTGTTGGTTAGAA 2700
 QY 2701 TGCAATAAAACTCACAATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAAATAA 2754
 Db 2701 TGCAATAAAACTCACAATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAAATAA 2754

RESULT 2
 ID ABT07523 standard; cDNA; 2754 BP.
 AC ABT07523;
 XX
 XX
 XX
 DT 14-NOV-2002 (first entry)
 DE Human breast cancer associated coding sequence SEQ ID NO: 2.
 DE
 XX Human; breast specific gene; breast specific protein; breast cancer;
 XX gene therapy; cytosstatic; gene; ss.
 XX Homo sapiens.
 XX WO200264611-A1.
 XX
 XX
 PD 22-AUG-2002.
 XX
 XX
 PF 12-FEB-2002; 2002WO-US004197.
 XX
 XX
 PR 13-FEB-2001; 2001US-0268292P.
 XX
 XX (DIAD-) DIADEXUS INC.

XX Salceda S, Macina RA, Hu P, Recipon H, Karra K, Cafferkey R;
 PI Sun Y, Liu C;
 XX WPI; 2002-657582/70.
 DR New breast specific nucleic acids and proteins, useful for identifying,
 XX diagnosing, monitoring, staging, imaging, and treating breast cancer and
 PT non-cancerous disease states in breast tissue, and in gene therapy.
 PT
 XX Claim 1; Page 148-150; 367pp; English.
 XX The present invention provides human breast specific coding sequences and
 CC proteins. These can be used in the diagnosis and treatment of breast
 CC cancer and non-cancerous diseases of the breast. The present sequence is
 CC a coding sequence of the invention
 XX Sequence 2754 BP; 557 A; 720 C; 753 G; 724 T; 0 U; 0 Other;
 SQ

Query Match 100.0%; Score 2754; DB 6; Length 2754;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2754; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCAAGCAGCCTCAGCTTGGCAAGGTTGGAGATGACTGCTCTCCCTTCGCATTGG 60
 Db 1 GCCAAGCAGCCTCAGCTTGGCAAGGTTGGAGATGACTGCTCTCCCTTCGCATTGG 60
 QY 61 GGAACAACAGGCTCCCTCGGTAGTCGATGATCCTCTTTTGTATCTTGTGTGACCTCCTCGA 120
 Db 61 GGAACAACAGGCTCCCTCGGTAGTCGATGATCCTCTTTTGTATCTTGTGTGACCTCCTCGA 120
 QY 121 GAGTGGATGACCTGGTGGCTTAGCTTTTCTAGACAGTGAATTTGACTGGGGAGTGT 180
 Db 121 GAGTGGATGACCTGGTGGCTTAGCTTTTCTAGACAGTGAATTTGACTGGGGAGTGT 180
 QY 181 CCCCAGAGCAGGCAAGGTCCTAGAGGGTCTCCACATGACTGGTTCACACAGCA 240
 Db 181 CCCCAGAGCAGGCAAGGTCCTAGAGGGTCTCCACATGACTGGTTCACACAGCA 240
 QY 241 CTTCCGCTGGGTTGCATGCTCTGTGTCTATTTACCGTCCAGGGTTCAGGTAGAAAT 300
 Db 241 CTTCCGCTGGGTTGCATGCTCTGTGTCTATTTACCGTCCAGGGTTCAGGTAGAAAT 300
 QY 301 GTTTGACCTCTTCTGATTTCCACCTCTCCCACTCCCTCCCTTAGGACAGGGCTTCAG 360
 Db 301 GTTTGACCTCTTCTGATTTCCACCTCTCCCACTCCCTCCCTTAGGACAGGGCTTCAG 360
 QY 361 GGCCAGTGAAGGCTGGTCCAGGACCCAGGCTCTTTGGACCTTCCAGGGGACCCCT 420
 Db 361 GGCCAGTGAAGGCTGGTCCAGGACCCAGGCTCTTTGGACCTTCCAGGGGACCCCT 420
 QY 421 GAGAGCTCTGAAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAGCTTCTCCTGGCTT 480
 Db 421 GAGAGCTCTGAAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAGCTTCTCCTGGCTT 480
 QY 481 TGCTCCCTCCCAATATATGGTTCACAGTAAACAGATCTAGGGCAACTGCTGTCTAG 540
 Db 481 TGCTCCCTCCCAATATATGGTTCACAGTAAACAGATCTAGGGCAACTGCTGTCTAG 540
 QY 541 TGGCCAGGCTGCACTGCAATCCCGGCTTCGCCACTTTTGGCCCTTCTAGAGCAGTG 600
 Db 541 TGGCCAGGCTGCACTGCAATCCCGGCTTCGCCACTTTTGGCCCTTCTAGAGCAGTG 600
 QY 601 TCCTTAGGAAGTACTGAGGATGGGTTTCTGCTCCCTGTCAGGGGAGGCTGATGGGA 660
 Db 601 TCCTTAGGAAGTACTGAGGATGGGTTTCTGCTCCCTGTCAGGGGAGGCTGATGGGA 660
 QY 661 TAAGTGGGAAAGGAGCGGTGCTGCTTGGCCCCCAGCTGCCAGCTGCCGATGGGAAA 720
 Db 661 TAAGTGGGAAAGGAGCGGTGCTGCTTGGCCCCCAGCTGCCAGCTGCCGATGGGAAA 720
 QY 721 CMAACCTGTCCTCCAGCGAAGGCGCAGTGGGNAACCTGCTCATGCCCTTCTGCTCT 780
 Db 721 CMAACCTGTCCTCCAGCGAAGGCGCAGTGGGNAACCTGCTCATGCCCTTCTGCTCT

Db 721 CCAAAACCATGTCCCCAGGAAAGGSCAGAGTGGGAACCTGTCTCATGCCCTTGGTCTT 780
 Qy 781 GAGGAGCCCTGAGGTGGCAGCAGGGGSCAGGGAGTTTTCAGGCCCTTCAATCAAGAGA 840
 Db 781 GAGGAGCCCTGAGGTGGCAGCAGGGGSCAGGGAGTTTTCAGGCCCTTCAATCAAGAGA 840
 Qy 841 ACAACATCCTCAGCTCCGACCCCTCATCCTGTATCAGCACTTACCGGTGTGACTGCC 900
 Db 841 ACAACATCCTCAGCTCCGACCCCTCATCCTGTATCAGCACTTACCGGTGTGACTGCC 900
 Qy 901 CTTGTGAGTACATACGGTGGGCCCCACCTGSCCACACTGGCTGTATFPCACCTGATTTA 960
 Db 901 CTTGTGAGTACATACGGTGGGCCCCACCTGSCCACACTGGCTGTATFPCACCTGATTTA 960
 Qy 961 TGATAGGAAATATATCTTTGAACCCCAATGAAGTGTTTTCCCCCATCACAAAAAAA 1020
 Db 961 TGATAGGAAATATATCTTTGAACCCCAATGAAGTGTTTTCCCCCATCACAAAAAAA 1020
 Qy 1021 AATTCCTATTTTGTAGACATGTATTTACAAAATATGTAATGTAATTTGTTT 1080
 Db 1021 AATTCCTATTTTGTAGACATGTATTTACAAAATATGTAATGTAATTTGTTT 1080
 Qy 1081 GATTTTATCAATTTAAATTTGGAAATTTGTTTGTCTTACGCCCACTAATATTTGAT 1140
 Db 1081 GATTTTATCAATTTAAATTTGGAAATTTGTTTGTCTTACGCCCACTAATATTTGAT 1140
 Qy 1141 TTTGGCTCTTGGCTGAAAGCCCAAAATATTTACCCCTTACGCCCTTACAGAAAAAGTC 1200
 Db 1141 TTTGGCTCTTGGCTGAAAGCCCAAAATATTTACCCCTTACGCCCTTACAGAAAAAGTC 1200
 Qy 1201 TGTGACTACTGAGCCAGACCTTCAATACCTTCAATCCCTGTGATTTTAAAGAAAGC 1260
 Db 1201 TGTGACTACTGAGCCAGACCTTCAATACCTTCAATCCCTGTGATTTTAAAGAAAGC 1260
 Qy 1261 CTCAGACAGTAAAGGCTTTTAAAGAAATAAATGACTTGGTTGGCTTGAAGCAGG 1320
 Db 1261 CTCAGACAGTAAAGGCTTTTAAAGAAATAAATGACTTGGTTGGCTTGAAGCAGG 1320
 Qy 1321 GGAAGCATTCAGATGAGCGTTCGATTAACCCCTGCTAFCACGCAATCTGFTGCTG 1380
 Db 1321 GGAAGCATTCAGATGAGCGTTCGATTAACCCCTGCTAFCACGCAATCTGFTGCTG 1380
 Qy 1381 TGTGCTGGCAGCCCTTGGAGGTTCTGGAGTTCAGTGGCTTCCAGAGTCCA 1440
 Db 1381 TGTGCTGGCAGCCCTTGGAGGTTCTGGAGTTCAGTGGCTTCCAGAGTCCA 1440
 Qy 1441 CCCCCTCTGTTGGGAAATCGAGCCCTTTGCTTTCCCTTTGCCCTGCTTCTCTG 1500
 Db 1441 CCCCCTCTGTTGGGAAATCGAGCCCTTTGCTTTCCCTTTGCCCTGCTTCTCTG 1500
 Qy 1501 TCCCTGGAGCCCTGGCTTGGTCTGATCCCTGGCCAGTCCCTCAGGGTTGATG 1560
 Db 1501 TCCCTGGAGCCCTGGCTTGGTCTGATCCCTGGCCAGTCCCTCAGGGTTGATG 1560
 Qy 1561 CGTGAGAAAGACTTTGACAGTGGTGGCAGCAGTGGCCCTTGGCCAGCTCACACTCT 1620
 Db 1561 CGTGAGAAAGACTTTGACAGTGGTGGCAGCAGTGGCCCTTGGCCAGCTCACACTCT 1620
 Qy 1621 TGTCTGGAGGGGAGCCTGATCTCACCTCCACTAGTACTTGGGGACTGAGACCTT 1680
 Db 1621 TGTCTGGAGGGGAGCCTGATCTCACCTCCACTAGTACTTGGGGACTGAGACCTT 1680
 Qy 1681 TTGGCTCTTGGAGCCTGCAAGCCTCTCCCATGTGTCAGCTGCTTCTTCTGCTACAA 1740
 Db 1681 TTGGCTCTTGGAGCCTGCAAGCCTCTCCCATGTGTCAGCTGCTTCTTCTGCTACAA 1740
 Qy 1741 AGGGACTGCTCAGTGGCCCTCAGCTTGGTGGTTTGGAGGGCCGCCCCCGCCCTCC 1800
 Db 1741 AGGGACTGCTCAGTGGCCCTCAGCTTGGTGGTTTGGAGGGCCGCCCCCGCCCTCC 1800
 Qy 1801 ATAAAGGTATCCTGGCCTGAAATTTCTGCATCTGCCATTTGGAGTGGACAGCCTCAA 1860
 Db 1801 ATAAAGGTATCCTGGCCTGAAATTTCTGCATCTGCCATTTGGAGTGGACAGCCTCAA 1860

Qy 1861 TCGAAGAGTCCCAAGGAGATGGGTCCGAGTCCGGCTGTGGCCATCCAGCCCTCTGTG 1920
 Db 1861 TCGAAGAGTCCCAAGGAGATGGGTCCGAGTCCGGCTGTGGCCATCCAGCCCTCTGTG 1920
 Qy 1921 GCTTGTCCAGCCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGGAGACAGCAGCACTG 1980
 Db 1921 GCTTGTCCAGCCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGGAGACAGCAGCACTG 1980
 Qy 1981 CAGTTCCTTCTGTGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 2040
 Db 1981 CAGTTCCTTCTGTGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 2040
 Qy 2041 GTGTCTGGCCATTTGGTTCAGCTTCTCACTCCATCCTCCATAAGCAATGGGAGGCC 2100
 Db 2041 GTGTCTGGCCATTTGGTTCAGCTTCTCACTCCATCCTCCATAAGCAATGGGAGGCC 2100
 Qy 2101 CACTAGCCAGTTTCAGGAAGTCAACTGGGAGGTTAGATGGGGCCAGGGTCCACAGC 2160
 Db 2101 CACTAGCCAGTTTCAGGAAGTCAACTGGGAGGTTAGATGGGGCCAGGGTCCACAGC 2160
 Qy 2161 TACTGATGCCGAGCCAGTTGAGTCTTCTGTCAGTCCAGTCCAGTCCCACTTGCAGAT 2220
 Db 2161 TACTGATGCCGAGCCAGTTGAGTCTTCTGTCAGTCCAGTCCAGTCCCACTTGCAGAT 2220
 Qy 2221 CTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTCAAGTCTGCTGTCTGCTGAGG 2280
 Db 2221 CTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTCAAGTCTGCTGTCTGCTGAGG 2280
 Qy 2281 CCTCATTTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2340
 Db 2281 CCTCATTTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2340
 Qy 2341 CACAGAAGAAAGGGGACTGTTTGGGGTGGCTCTCTGAGCCCTCCCGTGTGGTGGAA 2400
 Db 2341 CACAGAAGAAAGGGGACTGTTTGGGGTGGCTCTCTGAGCCCTCCCGTGTGGTGGAA 2400
 Qy 2401 GCACGGTACTGTGTTCTTAATGTTCAATGTTTAAATGATTTCTTAAAGATGTA 2460
 Db 2401 GCACGGTACTGTGTTCTTAATGTTCAATGTTTAAATGATTTCTTAAAGATGTA 2460
 Qy 2461 ACCTCCACACCTTCTCCAGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2520
 Db 2461 ACCTCCACACCTTCTCCAGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2520
 Qy 2521 GGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2580
 Db 2521 GGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2580
 Qy 2581 TGAGCTCAAAGTGTCTACTCCATGTTTGTACCTGAAATAAAGCAATTTTGGCACT 2640
 Db 2581 TGAGCTCAAAGTGTCTACTCCATGTTTGTACCTGAAATAAAGCAATTTTGGCACT 2640
 Qy 2641 TGTACTGTACATAGTCCGACGAGAGTCTGTATGTGGATCTGTCTTGGTTAGAA 2700
 Db 2641 TGTACTGTACATAGTCCGACGAGAGTCTGTATGTGGATCTGTCTTGGTTAGAA 2700
 Qy 2701 TCGAATAAACTCAATTTGTAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAA 2754
 Db 2701 TCGAATAAACTCAATTTGTAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAA 2754

RESULT 3
 ABX92049/c
 ID ABX92049 standard; cDNA; 2399 BP.
 XX
 AC ABX92049;
 CC
 DT 08-MAY-2003 (first entry)
 XX
 DE Lung specific nucleic acid (LSNA) #91.
 XX
 XW Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;

KW cancer monitoring; cancer staging; cancer imaging; lung cancer;
 KW non-cancerous diseases of the lung; transgenic animal; gene; ss.
 OS Homo sapiens.
 XX WO200268633-A2.
 XX 06-SEP-2002.
 XX 21-NOV-2001; 2001WO-US043612.
 XX 22-NOV-2000; 2000US-0252500P.
 XX (DIAD-) DIADEXUS INC.
 XX Macina RA, Recipon H, Chen S, Sun Y, Liu C;
 XX WPI; 2002-713376/77.
 XX New isolated human nucleic acid molecule and polypeptide, useful for
 PT identifying, diagnosing, monitoring, staging, imaging and treating lung
 PT cancer and non-cancerous diseases of the lung.
 XX Claim 1; Page 238-240; 389pp; English.
 XX The invention describes an isolated human nucleic acid (I) encoding any
 CC of 120 10-153 residue amino acid sequences (S1), given in the
 CC specification, comprising any of 164 179-12421 base pair sequences (S2),
 CC given in the specification. The methods and compositions of the present
 CC invention are useful for identifying, diagnosing, monitoring, staging,
 CC imaging and treating lung cancer and non-cancerous diseases of the lung.
 CC They are also used for identifying lung tissue, monitoring and
 CC identifying and/or designing antagonists of the polypeptide of the
 CC invention, gene therapy, production of transgenic animals and production
 CC of engineered lung tissue for treatment and research. This sequence
 CC encodes a lung specific nucleic acid
 XX
 SQ Sequence 2399 BP; 631 A; 653 C; 622 G; 493 T; 0 U; 0 Other;
 Query Match 87.1%; Score 2397.4; DB 6; Length 2399;
 Best_Local Similarity 100.0%; Pred. No. 0;
 Matches 2398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 356 TTGAGGCGCAGTGGCGCTGGTTCAGGCACCCACCCAGGCTCTTGGGACCTGCCAGGGG 415
 Db 2399 TTGAGGCGCAGTGGCGCTGGTTCAGGCACCCACCCAGGCTCTTGGGACCTGCCAGGGG 2340
 Qy 416 ACCCTGAGGCTCCTGAAACCCCACTAGCTCCAGACCTTTCTGCAAAAGCTCCTCCT 475
 Db 2399 ACCCTGAGGCTCCTGAAACCCCACTAGCTCCAGACCTTTCTGCAAAAGCTCCTCCT 2280
 Qy 476 GCGTTTCCTCCCTCCCAATCTATGGTTCACAGCTAACAGATCTGAGGGCAACTGCTGT 535
 Db 2279 GCGTTTCCTCCCTCCCAATCTATGGTTCACAGCTAACAGATCTGAGGGCAACTGCTGT 2220
 Qy 536 CTAAGTGGCCAGGCTGCACCTGCCATCCCGGCTCTGCCACCTTTAGGGCTTCTAGAG 595
 Db 2219 CTAAGTGGCCAGGCTGCACCTGCCATCCCGGCTCTGCCACCTTTAGGGCTTCTAGAG 2160
 Qy 596 CAGTGTCTTAGGAAGTAGCTCTGAGGCAATGGGTTTTCTGCTCTGTGCAAGGGCAGCTGA 655
 Db 2159 CAGTGTCTTAGGAAGTAGCTCTGAGGCAATGGGTTTTCTGCTCTGTGCAAGGGCAGCTGA 2100
 Qy 656 TGGATAGGTTGGGAAGGAGCGTTCAGTGTCTTGGGCCCCAGCTGGCCAGCCCTGGCGATGG 715
 Db 2099 TGGATAGGTTGGGAAGGAGCGTTCAGTGTCTTGGGCCCCAGCTGGCCAGCCCTGGCGATGG 2040
 Qy 716 GGAACCAAAACATGTCCTCCCGGAGGAGGGCCAGAGTGGAACTGCTCATGCCCTTC 775
 Db 2039 GGAACCAAAACATGTCCTCCCGGAGGAGGGCCAGAGTGGAACTGCTCATGCCCTTC 1980
 Qy 776 GTCCTGAGGACCTGAGTGGGCGCAGCAGGGGCCAGGGGAAGTTTTTCAGGCTTCATCAA 835

1979 GTCCTGAGGAGCCCTGAGTGGGCGAGCAGGGGGCAGGGGAAGTTTTTCAGGCTTCATCAA 1920
 Qy 836 AGAACAACAATCCTCAGCTCCGACCCCTCATCTCTGTATCAGCACTTACCGGTGTGGA 895
 Db 1919 AGAGAACAACAATCCTCAGCTCCGACCCCTCATCTCTGTATCAGCACTTACCGGTGTGGA 1860
 Qy 896 CTGCGCTTGTGAGTGTAGCATAGGTGGCCACCTGGCCACTGGCTGTTTATGCCACTG 955
 Db 1859 CTGCGCTTGTGAGTGTAGCATAGGTGGCCACCTGGCCACTGGCTGTTTATGCCACTG 1800
 Qy 956 APTTATGATAGGAAATATTTATCTTTTAAACCCAAATGAGTGTGTTTCTCCCCCATCAAAA 1015
 Db 1799 APTTATGATAGGAAATATTTATCTTTTAAACCCAAATGAGTGTGTTTCTCCCCCATCAAAA 1740
 Qy 1016 AAAAAAATCTATTTTATGATAGCATGTATTTTAAACAAATAATGACTCAATATTTGTA 1075
 Db 1739 AAAAAAATCTATTTTATGATAGCATGTATTTTAAACAAATAATGACTCAATATTTGTA 1680
 Qy 1076 TTTTGGATTTTATCAATTTAAAAATTTGGAATTTTGTCTCTTAGCCCAACAATAA 1135
 Db 1679 TTTTGGATTTTATCAATTTAAAAATTTGGAATTTTGTCTCTTAGCCCAACAATAA 1620
 Qy 1136 TTGATTTTCCCTCTGGCTCTGAAGCCCAAAATATTTTACCGTCTAGCCCTTACAGAAA 1195
 Db 1619 TTGATTTTCCCTCTGGCTCTGAAGCCCAAAATATTTTACCGTCTAGCCCTTACAGAAA 1560
 Qy 1196 AAGTCTGTGACTACTGAGCCAGACTCCTCAITTACCTCCTCCCTGTTGATTTTAAAG 1255
 Db 1559 AAGTCTGTGACTACTGAGCCAGACTCCTCAITTACCTCCTCCCTGTTGATTTTAAAG 1500
 Qy 1256 AAAGCCTGACAGTAAGGCTTTTAAAGAAATAAATGACTGTTGGCTTGGAA 1315
 Db 1499 AAAGCCTGACAGTAAGGCTTTTAAAGAAATAAATGACTGTTGGCTTGGAA 1440
 Qy 1316 GCAGGGAAAGCATTGAGATGAGCGGTTTCTGATTAACCCCTCCCTATCAGCATCTCGTG 1375
 Db 1439 GCAGGGAAAGCATTGAGATGAGCGGTTTCTGATTAACCCCTCCCTATCAGCATCTCGTG 1380
 Qy 1376 TCCTGTGTGGTGGGAGCCCTTTGGAAGTCTGTGTTTACGTGTAGTGGCTTCGTGAGA 1435
 Db 1379 TCCTGTGTGGTGGGAGCCCTTTGGAAGTCTGTGTTTACGTGTAGTGGCTTCGTGAGA 1320
 Qy 1436 GTCACCCCGCTCTGTGGGAAAGTGGGAGCCCTTCTCTTTCTTTGCGGCTGCTT 1495
 Db 1319 GTCACCCCGCTCTGTGGGAAAGTGGGAGCCCTTCTCTTTCTTTGCGGCTGCTT 1260
 Qy 1496 CTTGTTCTTGGGAGCCCTTTGGTGTGATCCCTGGCCAGGTCCCTCAGGGT 1555
 Db 1259 CTTGTTCTTGGGAGCCCTTTGGTGTGATCCCTGGCCAGGTCCCTCAGGGT 1200
 Qy 1556 TGATCGTGGAGAAAGACTTTGAGCAGTGTGGGAGCAGTGGCCCTTGGCCAGCTCAC 1615
 Db 1199 TGATCGTGGAGAAAGACTTTTGGAGCAGTGTGGGAGCAGTGGCCCTTGGCCAGCTCAC 1140
 Qy 1616 ACTCTTGTCTGGGAGGGGAGCCCTGATCTACCTCCACCTAGTACCTTTGGGGAGTGGG 1675
 Db 1139 ACTCTTGTCTGGGAGGGGAGCCCTGATCTACCTCCACCTAGTACCTTTGGGGAGTGGG 1080
 Qy 1676 ACCTTTGGCTTCTGTGAGCCTTGAAGCCTTTCCCAATGTGTCAGTGTCTTCTGTC 1735
 Db 1079 ACCTTTGGCTTCTGTGAGCCTTGAAGCCTTTCCCAATGTGTCAGTGTCTTCTGTC 1020
 Qy 1736 TACAAGGGGAGCTGTCAAGTGGCTCAGTGTGGTGGTTTTTGGGGGGCCGCCCCCGGCG 1795
 Db 1019 TACAAGGGGAGCTGTCAAGTGGCTCAGTGTGGTGGTTTTTGGGGGGCCGCCCCCGGCG 960
 Qy 1796 CTTCCATAAGGGTATCTGGGCTGAGAAATCTGCAATCTGCAATGAGGATGGAAGCTCAGCC 1855
 Db 959 CTTCCATAAGGGTATCTGGGCTGAGAAATCTGCAATCTGCAATGAGGATGGAAGCTCAGCC 900
 Qy 1856 TCAATGGAAGGATCCCAAGGAGATGGTCCGAGGCTCCGCTGGCCATCCAGCCCC 1915
 Db 899 TCAATGGAAGGATCCCAAGGAGATGGTCCGAGGCTCCGCTGGCCATCCAGCCCC 840

1916	CTGTGGCTGTCAGCCCTCTGTGACCCCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC	1975	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
839	CTGTGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC	780	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
1976	CACCTCAGTTCCTTTCGTGAGTAACAGTAGTAGTCCAGTCCAGGCTAAGCGGTAG	2035	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
779	CACCTCAGTTCCTTTCGTGAGTAACAGTAGTAGTCCAGTCCAGGCTAAGCGGTAG	720	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2036	CGTTGTGTCAGGCAATTCAGTCCAGTCCAGTCCAGGCTAAGCGGTAG	2095	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
719	GCTTTGTGTCAGGCAATTCAGTCCAGTCCAGTCCAGGCTAAGCGGTAG	660	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2096	GCCCCACTAGCCAGTTTTTCAGGAAGTCAACTGGAGGTTAGATGGGGCCAGGGTCCC	2155	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
659	GCCCCACTAGCCAGTTTTTCAGGAAGTCAACTGGAGGTTAGATGGGGCCAGGGTCCC	600	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2156	ACAGTACTATGCCCCAGCCAGGTTGAGTCTTCTGTGTCAGTCCGGATCCCACTTG	2215	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
599	ACAGTACTATGCCCCAGCCAGGTTGAGTCTTCTGTGTCAGTCCGGATCCCACTTG	540	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2216	CAGATCTCATCTCTCAGATAGTGGGACAAAGTCTTTGTTCAGAGTGTGGCTCTGTCC	2275	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
539	CAGATCTCATCTCTCAGATAGTGGGACAAAGTCTTTGTTCAGAGTGTGGCTCTGTCC	480	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2276	TGAGGCTCATGCTGCTGGTGTGCTGCTGGGAAAGCTTTGGGGCTTGTCTTG	2335	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
479	TGAGGCTCATGCTGCTGGTGTGCTGCTGGGAAAGCTTTGGGGCTTGTCTTG	420	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2336	TTAACACAGAAAGAGAGGAGCTTTGGGGTGCCTCTCGAGCTCCCCGTCGGG	2395	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
419	TTAACACAGAAAGAGAGGAGCTTTGGGGTGCCTCTCGAGCTCCCCGTCGGG	360	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2396	TGAAGACCGTTACTGTGTTCTAATGTTCAATGTTAATTAATAATGTTTCTTAAAG	2455	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
359	TGAAGACCGTTACTGTGTTCTAATGTTCAATGTTAATTAATAATGTTTCTTAAAG	300	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2456	ATGTAACTCCACACCTTCTCAGATGGTGTACTCTTTCTAAGGTTGGTGGAGTAT	2515	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
299	ATGTAACTCCACACCTTCTCAGATGGTGTACTCTTTCTAAGGTTGGTGGAGTAT	240	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2516	CTGTGGGGTGTGGGCTTGGATGGGTCAGGTCAGGTCAGGTCCTGGGGAGTG	2575	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
239	CTGTGGGGTGTGGGCTTGGATGGGTCAGGTCAGGTCAGGTCCTGGGGAGTG	180	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2576	GCGTGTGACTCAAGTGTCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2635	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
179	GCGTGTGACTCAAGTGTCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	120	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2636	GCAGTGTACTGTACCATAGTGGGACGAGAAGTCTGTATGTGGGATCTGTGTGGG	2695	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
119	GCAGTGTACTGTACCATAGTGGGACGAGAAGTCTGTATGTGGGATCTGTGTGGG	60	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
2696	TAGAAATCAAAATAAACTCAGTTGTAAGAAAATAAAATAAAATAAAATAAAATAA	2754	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC
59	TAGAAATCAAAATAAACTCAGTTGTAAGAAAATAAAATAAAATAAAATAA	1	GCAGGCTGTCAGGGGCTGGTGTCTTCACTCCAGGGGACAGCAGCAGC

XX	WO200268633-A2.	XX	Sequence 960 BP; 183 A; 351 C; 232 G; 193 T; 0 U; 1 Other;
XX	06-SEP-2002.	XX	Query Match
XX	21-NOV-2001; 2001WO-US043612.	XX	Best Local Similarity 99.4%; Score 612.4; DB 6; Length 960;
XX	22-NOV-2000; 2000US-0252500P.	XX	Matches 646; Conservative 0; Mismatches 1; Indels 3; Gaps 3;
XX	(DIAD-) DIADEXUS INC.	XX	
XX	Macina RA, Recipon H, Chen S, Sun Y, Liu C;	XX	
XX	WPI; 2002-713376/77.	XX	
XX	New isolated human nucleic acid molecule and polypeptide, useful for	XX	
XX	identifying, diagnosing, monitoring, staging, imaging and treating lung	XX	
XX	cancer and non-cancerous diseases of the lung.	XX	
XX	Claim 1; Page 246; 389pp; English.	XX	
XX	The invention describes an isolated human nucleic acid (1) encoding any	XX	
XX	of 120 10-1533 residue amino acid sequences (S1), given in the	XX	
XX	specification, comprising any of 164 179-12421 base pair sequences (S2),	XX	
XX	given in the specification. The methods and compositions of the present	XX	
XX	invention are useful for identifying, diagnosing, monitoring, staging,	XX	
XX	imaging and treating lung cancer and non-cancerous diseases of the lung.	XX	
XX	They are also used for identifying lung tissue, monitoring and	XX	
XX	identifying and/or designing antagonists of the polypeptide of the	XX	
XX	invention, gene therapy, production of transgenic animals and production	XX	
XX	of engineered lung tissue for treatment and research. This sequence	XX	
XX	encodes a lung specific nucleic acid	XX	
QY	1658 GPACCTGGGGACTGAGGACCTTTTGGCTTCTCTGGAGCTTCAAGGCTCTTCCCATGTG	1717	
Db	41 GPACCTGGGGACTGAGGACCTTTTGGCTTCTCTGGAGCTTCAAGGCTCTTCCCATGTG	100	
QY	1718 TCCAGTCTCTTCCCTGCTACAAAGGGGACTGCTCACAGTGGCCTCAGCTTGGTGT	1777	
Db	101 TCCAGTCTCTTCCCTGCTACAAAGGGGACTGCTCACAGTGGCCTCAGCTTGGTGT	160	
QY	1778 GAGGGGCGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	1837	
Db	161 GAGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	220	
QY	1898 ATTTGAGAGTGGAGAGCTCAAAATGGAGAGTCCCGAGGAGATGGGTCGAGGTCGGG	1897	
Db	221 ATTTGAGAGTGGAGAGCTCAAAATGGAGAGTCCCGAGGAGATGGGTCGAGGTCGGG	280	
QY	1898 CTGTGGCCATCCAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	1957	
Db	281 CTGTGGCCATCCAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	340	
QY	1958 CCAGGGGAGAGCAGAGCAGGCTGGGCTTTCTGGGCAATTTGGTCAGCTTCTCACTGGAT	2017	
Db	341 CCAGGGGAGAGCAGAGCAGGCTGGGCTTTCTGGGCAATTTGGTCAGCTTCTCACTGGAT	400	
QY	2018 CTGGGGCTAAACAGAGGCTAGGCTTTGTTCTGGGCAATTTGGTCAGCTTCTCACTGGAT	2077	
Db	401 CTGGGGCTAAACAGAGGCTAGGCTTTGTTCTGGGCAATTTGGTCAGCTTCTCACTGGAT	460	
QY	2078 CCCTAAAGCAATGGGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	2137	
Db	461 CCCTAAAGCAATGGGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	520	
QY	2138 GATGGGGCGGAGGGTCCACACA-GCTACTGATGGGCGGCGGCGGCGGCGGCGGCGGCGG	2196	

RESULT 4
 ABX92057 standard; cDNA; 960 BP.
 ID ABX92057
 AC ABX92057;
 BC
 DT 08-MAY-2003 (first entry)
 DE Lung specific nucleic acid (LSNA) #99.
 XX Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;
 XX cancer monitoring; cancer staging; cancer imaging; lung cancer;
 XX non-cancerous diseases of the lung; transgenic animal; gene; ss.
 OS Homo sapiens.

Db 521 GATGGGGCCAGGGTCCCAATGCTGCTGATGGCCCGAGCCAGGTTGAGCTTCTCTGGTGT 580
 Qy 2197 CCAAGTCCGGAT-CCCACTTCCAGATCTCACTGCTCTCAGATAGAGGACAAAGTCTTTTG 2255
 Db 581 CCAAGTCCGGATCCCACTTCCAGATCTCACTGCTCTCAGATAGAGGACAAAGTCTTTTG 640
 Qy 2256 TCACAGAGCTGG-CTCTGCTCCTGAGGCTCATTTGCTGCTGGCTGGGCTGCTC 2304
 Db 641 TCACAGAGCTGGCTCTCTGAGGCTCATTTGCTGCTGGCTGGGCTGCTC 690

RESULT 5
 ABV54530
 ID ABV54530 standard; cDNA; 611 BP.
 XX
 AC ABV54530;
 XX
 DT 17-SEP-2002 (first entry)
 XX
 DE Human prostate expression marker cDNA 54521.
 XX
 KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 XX pharmacogenomic marker; gene; ss.
 XX
 OS Homo sapiens.
 EN WO2001:60860-A2.
 XX
 XX 23-AUG-2001.
 XX
 PF 20-FEB-2001; 2001WO-US005171.
 XX
 PR 17-FEB-2000; 2000US-0183319P.
 PR 16-MAR-2000; 2000US-0189862P.
 PR 25-MAY-2000; 2000US-0207454P.
 PR 09-JUN-2000; 2000US-0211314P.
 PR 18-JUL-2000; 2000US-0219007P.
 PR 13-DEC-2000; 2000US-0255281P.
 XX
 PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX
 PI Schlegel R, Endege WO, Monahan JE;
 XX
 XX WPI; 2001-662795/76.
 DR
 XX
 PT Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer.
 XX
 XX Claim 1; Page 10539-10540; 11750pp; English.
 XX
 CC The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (I) is useful for: (a) assessing whether
 CC a patient is afflicted with prostate cancer; (b) monitoring the efficacy
 CC progression of prostate cancer in a patient; (c) assessing the efficacy
 CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
 CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
 CC determining whether prostate cancer has metastasized in a patient; (h)
 CC assessing the aggressiveness or indolence of prostate cancer in a patient
 CC ; (i) is also useful as a pharmacodynamic or pharmacogenomic marker
 XX
 SQ Sequence 611 BP; 111 A; 174 C; 164 G; 159 T; 0 U; 3 Other;
 Query Match 20.1%; Score 854; DB 5; Length 611;
 Best Local Similarity 99.5%; Pred. No. 7, 8e-141;
 Matches 565; Conservative 0; Mismatches 2; Indels 1; Gaps 1;
 Qy 1194 AAAAGTCTGCTGACTACTGAGCCAGCCCTCCATTTACCTCCATCCCTTTGGATTATTTAA 1253
 Db 44 AAAAGTCTGCTGACTACTGAGCCAGCCCTCCATTTACCTCCATCCCTTTGGATTATTTAA 103

1254 AGAAAGCCCTCAGACAGTAAGGGC-TTTTTTAAAGAAATAAAATGACTTTGGTTGGCTTG 1312
 Db 104 AGAAAGCCCTCAGACAGTAAGGGC-TTTTTTAAAGAAATAAAATGACTTTGGTTGGCTTG 163
 Qy 1313 GAAGCAGGGGAAGCATTTCAGATGAGCGGTTTCTGCATTAACCCCTCCCTATCAGGCATCTC 1372
 Db 164 GAAGCAGGGGAAGCATTTCAGATGAGCGGTTTCTGCATTAACCCCTCCCTATCAGGCATCTC 223
 Qy 1373 GTGTCCTGTTGGCTGGGAGCCCGCTTGGAAAGGTTCTGGTGTCTGAGTGGCTTCCCTGC 1432
 Db 224 GTGTCCTGTTGGCTGGGAGCCCGCTTGGAAAGGTTCTGGTGTCTGAGTGGCTTCCCTGC 283
 Qy 1433 AGAGTCCACCCCGCTGTTGGGAAATGCAGAGCCCTTTGCTTTCCCTTTGCGCCCTG 1492
 Db 284 AGAGTCCACCCCGCTGTTGGGAAATGCAGAGCCCTTTGCTTTCCCTTTGCGCCCTG 343
 Qy 1493 CTTCTGTTCTGGGAGCCCGCTGTTGGTGTCTGATCCCTTGGCCAGGTTCCCTCAG 1552
 Db 344 CTTCTGTTCTGGGAGCCCGCTGTTGGTGTCTGATCCCTTGGCCAGGTTCCCTCAG 403
 Qy 1553 GATTGATGCTGGAGAGGACTTTGAGCAGTGGTGGGAGCAGTGGCCCTCCCTGGCCAGCT 1612
 Db 404 GATTGATGCTGGAGAGGACTTTGAGCAGTGGTGGGAGCAGTGGCCCTCCCTGGCCAGCT 463
 Qy 1613 CACACTTTTCTGGGAGCCCGCTGTTGGTGTCTGATCCCTTGGCCAGGTTCCCTCAG 1672
 Db 464 CACACTTTTCTGGGAGCCCGCTGTTGGTGTCTGATCCCTTGGCCAGGTTCCCTCAG 523
 Qy 1673 AGGACCTTTTGGCTTCTGAGAGCCCTTCAAGCCCTTCCCATGTTGCCAGTGGCTTTCC 1732
 Db 524 AGGACCTTTTGGCTTCTGAGAGCCCTTCAAGCCCTTCCCATGTTGCCAGTGGCTTTCC 583
 Qy 1733 TGCTACAAAGGGGACTGCTCACAGTGGC 1760
 Db 584 TGCTACAAAGGGGACTGCTCACAGTGGC 611

RESULT 6
 ABT07522
 ID ABT07522 standard; cDNA; 591 BP.
 XX
 AC ABT07522;
 XX
 DT 14-NOV-2002 (first entry)
 XX
 DE Human breast cancer associated coding sequence SEQ ID NO: 1.
 XX
 KW Human; breast specific gene; breast specific protein; breast cancer;
 KW gene therapy; cytostatic; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2002:64611-A1.
 XX
 PD 22-AUG-2002.
 XX
 PF 12-FEB-2002; 2002WO-US004197.
 XX
 PR 13-FEB-2001; 2001US-0268292P.
 XX
 PR (DIAD-) DIADEXUS INC.
 PA
 PI Salceda S, Macina RA, Hu P, Recipon H, Karra K, Cafferkey R;
 PI Sun Y, Liu C;
 XX
 XX WPI; 2002-657582/70.
 DR
 XX
 XX New breast specific nucleic acids and proteins, useful for identifying,
 PT diagnosing, monitoring, staging, imaging, and treating breast cancer and
 PT non-cancerous disease states in breast tissue, and in gene therapy.
 XX
 PS Claim 1; Page 148; 367pp; English.

XX The present invention provides human breast specific coding sequences and
 CC proteins. These can be used in the diagnosis and treatment of breast
 CC cancer and non-cancerous diseases of the breast. The present sequence is
 CC a coding sequence of the invention
 XX

SQ Sequence 591 BP; 106 A; 166 C; 172 G; 147 T; 0 U; 0 Other;

Query Match 17.6%; Score 483.8; DB 6; Length 591;
 Best Local Similarity 97.5%; Pred. No. 1.3e-121;
 Matches 555; Conservative 0; Mismatches 7; Indels 7; Gaps 6;

1735 CTACAAAGGGGACTCTCACAGTGGCTCAGCTTGGGGTTTTGAGGGCCGCCCCCGG 1794
 12 CTACAAAGGGGACTCTCACAGTGGCTCAGCTTGGGGTTTTGAGGGCCGCCCCCGG 71

1795 CCCTCCATAGGATTCCTGGGCTGAGAAATCTGCATCTGCCATTTGGA-GGATGGACG 1853
 72 CCCTCCATAGGATTCCTGGGCTGAGAAATCTGCATCTGCCATTTGGA-GGATGGACG 131

1854 CCTCAAAATGGAAG-GAGTCCACGGGAGATGGTCCCGAGGTCC-GGCTGTGGCCATCCAG 1911
 132 CCTCAAAATGGAAGTGGTCCACGGGAGATGGTCCCGAGGTCCAGGCTGTGGCCATCCAG 191

1912 CCCCTGTGGCTTCCAGCTCTGACCCCTGCTGCTTCTCACTCCAGGGGAGACAG 1971
 192 CCCCTGTGGCTTCCAGCTCTGACCCCTGCTGCTTCTCACTCCAGGGGAGACAG 251

1972 CAGCCACTGCAGTTCCTTTCTTCGTGAG-TAACAGTAGTATAGCAGCTGGGGTAAACAG 2030
 252 TAGCCACTGCAGTTCCTTTCTTCGTGAG-TAACAGTAGTATAGCAGCTGGGGTAAACAG 311

2031 GCTAGGCTTTGTGTTCCGGCAATTTGGTTCAGCTTCTACTGATCCTCCCTTAAGCAATG 2090
 312 GCTAGGCTTTGTGTTCCGGCAATTTGGTTCAGCTTCTACTGATCCTCCCTTAAGCAATG 371

2091 GGGAGGCCCCACTAGCCAGTTTTTCAGAAAGTCACTGGGAGGTTAGTGGGGCCAG- 2149
 372 GGGAGGCCCCACTAGCCAGTTTTTCAGAAAGTCACTGGGAGGTTAGTGGGGCCAG- 431

2150 GGTCCACAGCTACTGATGGCCCGAGCCAGGTTGAGTTC--CCTGGTCCAGTCCGGAT 2207
 432 GGTCCACAGCTACTGATGGCCCGAGCCAGGTTGAGTTC--CCTGGTCCAGTCCGGAT 491

2208 CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACAAATTCCTTGTTCACAGTCTGG 2267
 492 CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACAAATTCCTTGTTCACAGTCTGG 551

2268 CTCTCTCTGAGGCTCAATGCTGGCTGG 2296
 552 CTCTCTCTGAGGCTCAATGCTGGCTGG 580

RESULT 7
 AA559058
 ID AA559058 standard; cDNA; 395 BP.
 AC AA559058;
 XX
 XX 16-JAN-2002 (first entry)

XX Human cancer related cDNA sequence #176.
 DE Human; ss; lung cancer; adenocarcinoma; breast cancer; colon cancer;
 XX prostate cancer; benign prostatic hypertrophy; BHP; cytostatic.
 KW Homo sapiens.
 OS

XX WO200172781-A2.
 XX 04-OCT-2001.
 XX
 XX 27-MAR-2001; 2001WO-US009952.

28-MAR-2000; 2000US-0192583P.
 (CHIR) CHIRON CORP.
 (HYSE-) HYSEQ INC.

Williams LT, Escobedo J, Innis MA, Garcia PD, Sudduth-Klinger J;
 Reinhard C, He Z, Randazzo F, Kennedy GC, Pot D, Kassam A;
 Lamson G, Drmanac R, Crkvenjakov R, Dickson M, Drmanac S, Labat I;
 Leshkowitz D, Kita D, Garcia V, Jones LW, Stache-Crain B;
 WPI; 2001-626251/72.

New human polynucleotides useful for the treatment and diagnosis of
 cancer.

Claim 1; Page 202; 240pp; English.
 The invention relates to an isolated polynucleotide comprising a
 nucleotide sequence which hybridizes to a sequence selected from one of
 316 fully defined sequences given in the specification, antisense
 molecules complementary to the sequences, the polypeptides encoded by the
 sequences and antibodies raised against the proteins. The nucleic acids
 are useful for detecting differentially expressed genes which correlate
 with a cancerous state of a mammalian cell, i.e. diagnosing cancer
 (especially lung cancer, colon cancer, breast cancer, prostate cancer and
 adenocarcinoma). Modifying the gene products of the nucleic acids
 results in inhibition of tumour growth. The nucleic acids are also useful
 in gene mapping and tissue profiling. The present sequence is one of the
 316 cancer related cDNA sequences

Sequence 395 BP; 70 A; 111 C; 109 G; 105 T; 0 U; 0 Other;
 Query Match 13.0%; Score 357.4; DB 4; Length 395;
 Best Local Similarity 96.9%; Pred. No. 4.4e-87;
 Matches 375; Conservative 0; Mismatches 11; Indels 1; Gaps 1;

1216 CAGACCTCCATTAACCTCCATCCCTGTTGGATTAATAAGAAAGCTCAGACAGTAAGGG 1275
 9 CAGACCTCCATTAACCTCCATCCCTGTTGGATTAATAAGAAAGCTCAGACAGTAAGGG 68

1276 C-TTTTTTAAAAGATAAAAATGACATGTTGGCTTGGAAAGCAGGGGAAGCATTCAGAT 1334
 69 CTTTTTTAAAAGATAAAAATGACATGTTGGCTTGGAAAGCAGGGGAAGCATTCAGAT 128

1335 GAGCGGTTCTGCATTAACCTCCATCCCTGTTGGATTAATAAGAAAGCTCAGACAGTAAGGG 1394
 129 GAGCGGTTCTGCATTAACCTCCATCCCTGTTGGATTAATAAGAAAGCTCAGACAGTAAGGG 188

1395 CCCCCTTGGAAAGTTCTGGTCTTCAGCTGGCTCCCTGCAGAGTCCACCCCGCTCGTGGT 1454
 189 CCCCCTTGGAAAGTTCTGGTCTTCAGCTGGCTCCCTGCAGAGTCCACCCCGCTCGTGGT 248

1455 GGGATGACAGCCCTTGCCTTCTTCCCTTCTTCCCGCTGCTTCCCTGGGACCCCGC 1514
 249 GGGATGACAGCCCTTGCCTTCTTCCCTTCTTCCCGCTGCTTCCCTGGGACCCCGC 308

1515 TGGCGCTTGGTCTGCATCCCTGGCCAGGTCCTCAGGGTTGATGCGTGGAGAAAGGACT 1574
 309 TGGCGCTTGGTCTGCATCCCTGGCCAGGTCCTCAGGGTTGATGCGTGGAGAAAGGACT 368

1575 TTGAGCAGTGGTGGCAGCAGTGGCCCT 1601
 369 TTGAGCAGTGGTGGCAGCAGTGGCCCT 395

RESULT 8
 ADD49697
 ID ADD49697 standard; cDNA; 295 BP.
 XX
 AC ADD49697;
 XX
 XX 15-JAN-2004 (first entry)
 DT

XX SQ Sequence 251 BP; 79 A; 75 C; 54 G; 43 T; 0 U; 0 Other;
 Query Match 8.1%; Score 224.4; DB 6; Length 251;
 Best Local Similarity 98.8%; Pred. No. 9.4e-51;
 Matches 237; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
 # "QY 2381 CCTCCCGTGTGGTGAAGCAGCGTTACTGTGTTCTCTAATGTTCAATGTTTAAAT 2440
 |||||
 DB 251 CCTCCCGTGTGGTGAAGCAGCGTTACTGTGTTCTCTAATGTTCAATGTTTAAAT 192
 |||||
 # "QY 2441 GATTTCTTTCTAAAGATGTAACCTCCACACCTTTCTCCAGATTTGGTGACTTTTCTAA 2500
 |||||
 DB 191 GATTTCTTTCTAAAGATGTAACCTCCACACCTTTCTCCAGATTTGGTGACTTTTCTAA 132
 |||||
 # "QY 2501 AGTGGTGGGAGTAPCTCTCGGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGAGA 2560
 |||||
 DB 131 AGTGGTGGGAGTAPCTCTCGGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGAGA 72
 |||||
 # "QY 2561 GGTCTGGGGAGT--GGCGTTGAGCTCAAGTGTCTACTCCCATGTTTGTACT 2618
 |||||
 DB 71 GGTCTGGGGAGTGGCGGTTGAGCTCAAGTGTCTACTCCCATGTTTGTACT 12

##RESULT 10
 ID AAZ35057 standard; DNA; 736 BP.
 XX AAZ35057;
 DT 28-FEB-2000 (first entry)
 DE Pluripotent cell marker gene L17 DD-PCR product.
 XX Cell differentiation; cell proliferation; cell maintenance; human;
 KW ectoderm-like cell; embryonic stem cell; pluripotent cell; gene therapy;
 KW cell therapy; tissue transplant; organ transplant; xerotrnsplant;
 KW allotransplant; concomitant transplantation; transgenic animal; L17; ds.
 OS Homo sapiens.
 XX WO9953021-A1.
 XX 21-OCT-1999.
 XX 09-APR-1999; 99WO-AU000265.
 PR 09-APR-1998; 98AU-00002912.
 PR 23-SEP-1998; 98AU-00006097.
 XX (BRES-) BRESAGEN LTD.
 # "PI Bettess MD, Rathjen PD, Rathjen J;
 XX WPI; 2000-061970/05.
 PT New isolated biologically active factor capable of influencing
 PT differentiation, proliferation or maintenance of pluripotent cells.
 XX Example 1; Fig 3A; 189pp; English.
 CC This is the nucleotide sequence of a novel partial cDNA, termed L17, that
 CC is differentially expressed between embryonic stem (ES) and primitive
 CC ectoderm-like (EPL) cells. Novel L17, K7 (see AAZ35058) and Psci (see
 CC AAZ35059) clones were identified by differential display PCR using RNA
 CC isolated from ES and EPL cells that had been cultured in MED17+Lif for 2,
 CC 4, 6 and 8 days. L17 was highly expressed in ES cells but down regulated
 CC rapidly with EPL formation and maintenance in culture. The expression of
 CC novel pluripotent cell marker genes supports the relationship between EPL
 CC cells and early primitive ectoderm. The invention relates to a novel
 CC biologically active factor capable of influencing the differentiation,
 CC proliferation or maintenance of pluripotent cells. Methods are provided
 CC for producing partially or terminally differentiated cells from

CC pluripotent cells. The pluripotent cells and partially or terminally
 CC differentiated cells can be used in allo-, concomitant- or xeno-
 CC transplantation, cell therapy, tissue and organ augmentation or
 CC replacement, and gene therapy. They can also be used for producing
 CC chimeric or transgenic animals
 XX Sequence 736 BP; 202 A; 147 C; 174 G; 213 T; 0 U; 0 Other;
 Query Match 2.8%; Score 76.6; DB 3; Length 736;
 Best Local Similarity 68.5%; Pred. No. 5.4e-10;
 Matches 191; Conservative 0; Mismatches 59; Indels 29; Gaps 5;
 # "QY 2471 CTTTCTCCAGATTTGGTGGTACTCTTTCTAAAGTGGTGGAGTATCTCTCGGGGGTGGTGT 2530
 |||||
 DB 483 CTTTCTCCAGTGGGTGGTATCTTTCTAAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 538
 |||||
 # "QY 2531 GGCCCTTGGATCGGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2589
 |||||
 DB 539 ----TCCAGACTGGTCAAAATATGTTGGCAGGCTCACGGGAAAGGGAGTCAITGGAAACCCA 594
 |||||
 # "QY 2590 AGTTCTCTACTGCCA--TGTTTTGTACTCTGAAATAAAGCATATTTGCACTTGTACT 2646
 |||||
 DB 595 CGTTGTCAATGATGATGTTGTTTGTACCTGAAATAAAGCATATTTTGCCTTGTAAA 654
 |||||
 # "QY 2647 TGTACCATAGTCCGGACGAGAGTCTGTATGTGGGATCTGTCTTGGGTTAGAATGCAAA 2706
 |||||
 DB 655 TGAA-----AAATCTGTATGTGGCTCTGTGC-TGGGTCAAGATGCAAA 697
 |||||
 # "QY 2707 TAAACTCAATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2745
 |||||
 DB 698 TAAACTCAATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 736
 |||||
 ##RESULT 11
 AAK90877/c
 ID AAK90877 standard; DNA; 32038 BP.
 XX AAK90877;
 XX 05-NOV-2001 (first entry)
 XX Human digestive system antigen genomic sequence SEQ ID NO: 4453.
 DE Human digestive system antigen genomic sequence SEQ ID NO: 4453.
 XX Human; digestive system antigen; gene therapy; cancer; appendicitis;
 KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
 KW digestive system disorder; Meckel's diverticulum; ds.
 XX Homo sapiens.
 XX WO200155314-A2.
 # "PI 02-AUG-2001.
 XX 17-JAN-2001; 2001WO-US001324.
 XX 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 24-FEB-2000; 2000US-0184664P.
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 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2000US-0259678P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX PA Rosen CA, Barash SC, Ruben SM;
 XX PI WPI; 2001-502630/55.
 XX DR Polynucleotides encoding digestive system antigens, useful for
 XX PT diagnosing, treating, preventing and/or prognosing disorders of the
 XX PT digestive system, particularly cancer and cancer metastases.
 XX XX Disclosure; SEQ ID NO 4453; 986pp; English.
 XX PS The present invention provides the protein and coding sequences of a
 XX CC number of human digestive system antigens. These can be used in the
 XX CC diagnosis, treatment and prevention of digestive system disorders,
 XX CC including cancer, Meckel's diverticulum, bacterial or parasitic
 XX CC infections, appendicitis, Hirschsprung's disease, chronic colitis or
 XX CC ulcerative colitis. The present sequence is a genomic DNA fragment
 XX CC encoding a digestive system antigen of the invention.
 XX SQ Sequence 32038 BP; 9776 A; 5476 C; 5963 G; 10823 T; 0 U; 0 Other;
 Query Match 2.7%; Score 75; DB 4; Length 32038;
 Best Local Similarity 65.9%; Pred. No. 1.3e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

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Db 28877 AAATATTAAATTTTCATTTAGTAAACCCGTTATACAAAAAATGTTCTAAATTAAT 28818
Qy 1073 GPATTTGGATTTAACAATTAATAAATTTGGAATTTGTTGCTCTTACGC----- 1125
Db 28817 G--TTTGAATTTTCTCAATAAATAAATTTTCGTCGAAATTTTATTTCTCTAGTTATTAA 28760
Qy 1126 -----CAACAATATATGATTTTGGCTCTGAGCCCAAAATATTACCGT 1178
Db 28759 GTAATCATACAAATCTAGTTTACCTTTAGCCCAAGCCATATAATTTACTAT 28700
Qy 1179 CTAGCCCGTTACAGAAAAGTCTGCTACTACTGAGCCAGACC 1221
Db 28699 CTGGCCCTTTATAGAAAAGTTTCTGACCTCTGCCCCTAGAGC 28657

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RESULT 12
AAK89980/c
ID AAK89980 standard; DNA; 32038 BP.
XX
AC AAK89980;
XX
DT 05-NOV-2001 (first entry)
DE Human digestive system antigen genomic sequence SEQ ID NO: 3556.
KW Human; digestive system antigen; gene therapy; cancer; appendicitis;
KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
KW digestive system disorder; Meckel's diverticulum; ds.
XX
OS Homo sapiens.
XX
PN WO20015314-A2.
PD
PX
PY
PF 17-JAN-2001; 2001WO-US001324.
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PR 31-JAN-2000; 2000US-0179065P.
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PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-502630/55.
XX
XX Polynucleotides encoding digestive system antigens, useful for
PT diagnosing, treating, preventing and/or prognosing disorders of the
PT digestive system, particularly cancer and cancer metastases.
XX
XX Disclosure; SEQ ID NO 3556; 986pp; English.
XX
XX The present invention provides the protein and coding sequences of a
CC number of human digestive system antigens. These can be used in the
CC diagnosis, treatment and prevention of digestive system disorders,
CC including cancer, Meckel's diverticulum, bacterial or parasitic
CC infections, appendicitis, Hirschsprung's disease, chronic colitis or
CC ulcerative colitis. The present sequence is a genomic DNA fragment
CC encoding a digestive system antigen of the invention
XX
XX SQ Sequence 32038 BP; 9776 A; 5476 C; 5963 G; 10823 T; 0 U; 0 Other;
Query Match 2.7%; Score 75; DB 4; Length 32038;
Best Local Similarity 65.9%; Pred. No. 1.3e-08;
Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
QY 1013 AAAAAAATTCATTTAGTAGACATGTTTACCACAAATTTTACCAAAATAGTACTCAATTTATT 1072
Db 28877 AATATTAAATTCATTTAGTAGAACCCCGTATTACAAAAAATTTGTTCTAAATTTATT 28819
QY 1073 GTATTTGGATTTTCAATTTAAAAATTTGGAATTTTGTTCCTTACGC----- 1125
Db 28817 G- -TTTTGAATTTGTCAATAAAATTTTCGFGCAAATTTTCTCTCTAGTTATTTAA 28760
QY 1126 -----CAACATATATGTTTTGGCTTCTTGCTGAAAGCCCAAAATATTACCGT 1178
Db 28759 GTATCTACATAACAAATCTCAGTTTTTACTCTTAGCCCAAAAGCCTAAATAATTTACTAT 28700
QY 1179 CTAGCCCGTTACAGAAAAGTCTGCTGACTACTGAGCCAGACC 1221
Db 28699 CTGGCCCTTATAGAAAAGTTTCTTGACCTTCCCTAGAGC 28657
XX
XX RESULT 13

AAS30028/c
ID AAS30028 standard; DNA; 32038 BP.
XX AAS30028;
AC AAS30028;
XX
XX 21-NOV-2001 (first entry)
XX
XX Human lung antigen genomic DNA #98.
XX
XX Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;
KW chicken; sheep; immunosuppressive; antiarthritic; vasotropic;
KW antirheumatic; antiproliferative; cytostatic; cardiast; neuroprotective;
KW cerebrotective; nontropic; antibacterial; virucide; fungicide; cancer;
KW hyperthymic; vulnery; gene therapy; autoimmune disease; neoplas;
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; da;
KW cerebrovascular disorder; nervous system disorder; bacterial infection;
KW fungal infection; viral infection; ocular disorder; endocrine disorder;
KW gastrointestinal disorder; renal disorder; respiratory disorder;
KW wound healing; skin aging; organ transplantation; food preservative;
KW tissue regeneration; anti-infertility; food additive.
XX
XX Homo sapiens.
XX
XX WO200155303-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001301.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 11-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 14-JUL-2000; 2000US-0218290P.
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XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
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XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 06-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 06-SEP-2000; 2000US-0230438P.

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 PR 17-NOV-2000; 2000US-0249215P
 PR 17-NOV-2000; 2000US-0249216P
 PR 17-NOV-2000; 2000US-0249217P
 PR 17-NOV-2000; 2000US-0249218P
 PR 17-NOV-2000; 2000US-0249244P

(HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Barash SC, Ruben SM;
 WPI; 2001-457723/49.

Isolated polypeptide for treating, preventing and/ or prognosing respiratory disorders related to the lung including lung cancers and also for testing and detection e.g. diagnosis.

Claim 1; SEQ ID NO 292; 507pp; English.

Sequences AAS29931-AA30164 represent genomic DNA molecules, which encode the lung antigen polypeptides of the invention. Lung antigen polypeptides and their associated polynucleotides are useful in the diagnosis, treatment and prevention of various types of disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A pathological condition can be determined by detecting the presence or absence of a mutation in a lung antigen polynucleotide. The treatable disorders include autoimmune diseases such as rheumatoid arthritis, hyperproliferative disorders such as neoplasms of the breast or liver, cardiovascular disorders such as cardiac arrest, cerebrovascular disorders such as cerebral ischaemia, nervous system disorders such as Alzheimer's disease, infections caused by bacteria, viruses and fungi, ocular disorders such as corneal infection, endocrine disorders such as premature labour and infertility, gastrointestinal disorders such as Crohn's disease, renal disorders such as glomerulonephritis and respiratory disorders such as asthma and pleurisy. The polypeptides can also be used to aid wound healing, to prevent skin aging due to sunburn, to maintain organs before transplantation, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. Note: The sequence data for this patent did not form part of the printed or specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

Query Match 2.7%; Score 75; DB 5; Length 32038;
 Best Local Similarity 65.9%; Pred. No. 1.3e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

QY 1013 AAAAAAAAAAATCTTATTTTGTAGACATGATTTTACCAAAAATGTACTCAATTTAT 1072
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 |||||
 Db 28877 AAATATTTAATCTTTTCATTTAGTAAACCCGPTTACAAAAAATTTGTTAAATTTAT 28818
 QY 1073 GTATTTTGGATTTTATCAATTTAAAAATTTGTAATTTGTTGCTCTTACCC----- 1125
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 Db 28817 G--TTTTGAATTTTGTCAATTAATAATTTTGTGCAATTTTATTTCTCTAGTATTTAA 28760
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 QY 1126 -----CAACATAATTTGATTTTGGCTTGTGGCTGTGAAGCCCAAAAATTTTACCGT 1178
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 Db 28759 GTATCTACATAACATCTCAGTTTATACCTCTTAGCCCAAGCCCAAAAATTTTACTAT 28700
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 |||||
 QY 1179 CTAGCCCGTTACAGAAAAGTCTGCTGACTACTGAGCCAGACC 1221

Db 28699 CTGGCCCTTATAGAAAAGTTCTGACCTCTGCTCCCTAGAGC 28657

RESULT 14

ADB33365/C
ID ADB33365 standard; DNA; 32038 BP.

AC ADB33365;

DT 04-DEC-2003 (first entry)

DE Human novel lung related polypeptide DNA SEQ ID NO 232.

XX
KW gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia;
KW adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis;
KW immunodeficiency; X-linked agammaglobulinaemia;
KW X-linked infantile agammaglobulinaemia; inflammatory disorder;
KW adrenalitis; alveolitis; immune complex disease; serum sickness;
KW polyarteritis nodosa; bleeding disorder; thrombocytopenia;
KW von Willebrand's disease; acquired platelet dysfunction; kidney failure;
KW multiple myeloma; macrophage related disorder; Gaucher's disease;
KW Neimann-Pick disease; tumour; colon cancer; pancreatic cancer;
KW renal disorder; nephritis; bone disorder; Albers-Schorberg disease;
KW bowleg; muscle disorder; Becker's muscular dystrophy;
KW Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion;
KW traumatic lesion; endocrine disorder; Cushing's syndrome;
KW corticosteroid deficiency; gastrointestinal disorder; dysphagia;
KW gastric reflux; human; ds.

XX OS Homo sapiens.

XX XN US2003054368-A1.

XX XP 20-MAR-2003.

XX XZ 22-FEB-2002; 2002US-00079854.

PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189897P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
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PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
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PR 14-AUG-2000; 2000US-0225268P.
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PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.

PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
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PR 12-SEP-2000; 2000US-0231968P.
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PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
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PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
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PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
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PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.

PR 17-NOV-2000; 2000US-0249211P.
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 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 PR 17-JAN-2001; 2001US-0076487P.
 PA (HUMA-) HUMAN GENOME SCI INC.
 EI Rosen CA, Ruben SM, Barash SC;
 XX WPI; 2003-695900/66.
 DR
 PT Novel isolated lung antigen polypeptides useful for treating, preventing,
 PT diagnosing acute myelogenous leukemias, adenocarcinoma, thrombocytopenia,
 PT Von Willebrand's disease.
 XX
 XX Disclosure; SEQ ID NO 292; 179pp; English.
 PS
 XX The invention relates to an isolated lung antigen polypeptide sequence or
 CC encoded sequence in a cDNA clone. The polypeptide and its polynucleotide
 CC are useful for treating, preventing, diagnosing and/or prognosing
 CC diseases and/or disorders such as pathological cell proliferative
 CC neoplasias e.g. acute myelogenous leukemias, adenocarcinoma; respiratory
 CC disorders such as chronic rhinitis, sinusitis; immunodeficiencies such as
 CC X-linked agammaglobulinemia, X-linked infantile agammaglobulinemia;
 CC inflammatory disorders such as adenialitis, alveolitis; immune complex
 CC diseases such as serum sickness, polyarteritis nodosa; bleeding disorders
 CC such as thrombocytopenia, Von Willebrand's disease; acquired platelet
 CC dysfunction such as kidney failure, multiple myeloma; disorders
 CC associated with macrophage numbers and/or macrophage function such as
 CC Gaucher's disease, Niemann-Pick disease; tumors such as colon cancer,
 CC pancreatic cancer; renal disorders such as kidney failure, nephritis;
 CC bone disorders such as Albers-Schonberg disease, bowlegs; muscle
 CC disorders such as Becker's muscular dystrophy, Duchenne's muscular
 CC dystrophy; nervous disorders such as ischaemic lesions, traumatic lesions
 CC ; endocrine disorders such as Cushing's syndrome, corticosteroid

QY 1126 -----CAACATATATGATTTTGGCTTGGCTTGAAGCCCAAAATATTACCGT 1178
 Db 28759 GATATACATAACAATCTCAGTTTACCTCTTAGCCCAAGCCCAAAATATTACTAT 28700
 QY 1179 CTAGCCCGTTACAGAAAAGTCTGCTACTACTAGCCAGCCAGCC 1221
 Db 28699 CTGGCCCTTATAGAAAAGTTCCTGACCTCTGCGCCCTAGAGC 28657
 RESULT 15
 ADJL12644
 ID ADJL12644 standard; DNA; 32844 BP.
 XX AC ADJL12644;
 XX DT 20-MAY-2004 (first entry)
 XX DE DNA fragment of a BAC clone that encodes a human secreted protein Seq498.
 XX KW human; secreted; cancer; haematopoietic disease; anaemia;
 KW multiple myeloma; reproductive system disorder; prostatitis;
 KW inguinal hernia; musculoskeletal disease; systemic lupus erythematosus;
 KW gout; cardiovascular disease; arrhythmia; hypernatraemia; fetal disease;
 KW fetal alcohol syndrome; Down's syndrome; excretory disease;
 KW urinary incontinence; renal disorder; neural; sensory disease;
 KW Alzheimer's disease; meningitis; respiratory disease; emphysema;
 KW occupational lung disease; endocrine disease; diabetes;
 KW glomerulonephritis; digestive disease; portal hypertension;
 KW irritable bowel syndrome; epithelial disease; scleroderma;
 KW epidermolysis bullosa; cytostatic; antineoplastic; antiarthritic;
 KW antiasthmatic; anti-HIV; immunosuppressive; antiinflammatory;
 KW antipsoriatic; antibacterial; osteopathic; dermatological; antigout;
 KW immunomodulator; antiarrhythmic; cardiac; noctropic; antilipemic;
 KW nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;
 KW antidiabetic; anabolic; hypertensive; vulnery; ds.
 XX OS Homo sapiens.
 XX PN US2004010132-A1.
 XX PD 15-JAN-2004.
 XX PF 30-OCT-2001; 2001US-00984429.
 XX PR 09-OCT-1997; 97US-0061463P.
 PR 09-OCT-1997; 97US-0061527P.
 PR 09-OCT-1997; 97US-0061529P.
 PR 09-OCT-1997; 97US-0061532P.
 PR 09-OCT-1997; 97US-0061536P.
 PR 09-OCT-1997; 97US-0071498P.
 PR 08-OCT-1998; 98WO-US021142.
 PR 08-APR-1999; 99US-00288143.
 PR 01-NOV-2000; 2000US-0244591P.
 XX (ROSE/) ROSEN C A.
 PA (BREW/) BREWER L A.
 PA (DUAN/) DUAN R D.
 PA (RUBE/) RUBEN S M.
 PA (FLOR/) FLORENCE K A.
 PA (GREE/) GREENE J M.
 PA (YOUN/) YOUNG P E.
 PA (FERE/) FERRIE A M.
 PA (YUGG/) YU G.
 PA (FLOR/) FLORENCE C.
 PA (EBNE/) EBNER R.
 PA (OLSE/) OLSEN H.
 XX PI Rosen CA, Brewer LA, Duan RD, Ruben SM, Florence KA, Greene JM;
 PI Young PE, Ferrie AM, Yu G, Florence C, Ebner R, Olsen H;
 XX WPI; 2004-090518/09.
 XX PT New isolated nucleic acids and polypeptides, useful for diagnosing,

Query Match 2.7%; Score 75; DB 10; Length 32038;
 Best Local Similarity 65.9%; Pred. No. 1.3e-08;
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
 QY 1013 AAAAAAATTTTATTTTAGTACATGATTTTACAAAAATATGCTACTCAATATT 1072
 Db 28877 AATATTTATTTCTTTTCAATTAGTAACCCGTAATACAAAAATTTCTAATATT 28818
 QY 1073 GFAITTTGGATTTTCAATTTAAAAATTTGGAAAATTTGTTCTCTTACGC----- 1125
 Db 28817 G--TTTGAATTTTGTCAATAAAAATTTTCGTGCAAAATTTTATTTCTCTAGTATTAA 28760

PT treating, preventing or ameliorating diseases or disorders e.g. cancer,
FT anemia, arthritis, asthma, inflammatory bowel disease or Alzheimer's
XX disease.

PS Disclosure; SEQ ID NO 498; 286pp; English.

XX
CC This invention relates to novel polynucleotides encoding human secreted
CC proteins. Specifically, it refers to the vectors, host cells, recombinant
CC and synthetic methods for producing human polynucleotides, polypeptides
CC and antibodies. Furthermore, it relates to screening methods to identify
CC agonists and antagonists that can be used to inhibit or enhance the
CC production and function of the secreted proteins. The present invention
CC describes these compositions as useful for diagnosing, treating or
CC preventing disorders such as cancer, haematopoietic diseases including
CC anaemia and multiple myeloma, reproductive system disorders including
CC prostaticitis and inguinal hernia, musculoskeletal diseases including
CC systemic lupus erythematosus and gout, cardiovascular disease including
CC arrhythmia and hypernatraemia, mixed fetal diseases including fetal
CC alcohol syndrome and Down's syndrome, excretory diseases including
CC urinary incontinence and renal disorders, neural or sensory disease
CC including Alzheimer's disease and meningitis, respiratory disease
CC including emphysema and occupational lung disease, endocrine diseases
CC including diabetes and glomerulonephritis, digestive diseases including
CC portal hypertension and irritable bowel syndrome and connective tissue or
CC epithelial diseases including scleroderma and epidermolysis bullosa. As
CC such, there are various activities such as cytostatic, antianemic,
CC antiarthritic, antiasthmatic, anti-HIV, immunosuppressive,
CC antiinflammatory, antipsoriatic, antibacterial, osteopathic,
CC dermatological, antipruritic, immunomodulator, antiarrhythmic, cardiant,
CC neurotropic, antilipemic, nephrotropic, uropathic, neuroprotective,
CC antiparkinsonian, tranquilizer, antidiabetic, anabolic, hypertensive and
CC vulnerary. This polynucleotide is a DNA fragment of a BAC clone that
CC encodes a human secreted protein of the invention. NOTE: This sequence
CC does not appear in the printed specification but has been obtained in
CC electronic format from the US patent office at the following web site
CC www.seqdata.uspto.gov/sequence.html; Document ID: 20040010132.

XX SQ Sequence 32844 BP; 11125 A; 6089 C; 5587 G; 10043 T; 0 U; 0 Other;

Query Match 2.7%; Score 75; DB 12; Length 32844;
Best Local Similarity 65.9%; Pred. No. 1.3e-08;
Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

Qy 1013 AAAAAAAAAATTCCTATTTTAGTAGACATGTTTACCCAAAAATATGTACTCAATATT 1072
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Qy 1073 GTATTTGGATTTTATCAATTTAAAATTTGGAAATTTGTTGCTCTTACGC----- 1125
Db |||||
4028 G--TTTTGAATTTTGTCAATAAAAATTTTCGTGCAAAATTTTCTCTAGTATTAA 4085
Qy 1126 -----CAACATAATATGATTTTGGCTCTTGGCTCTGAAAGCCCAAAAATTTTACCGT 1178
Db |||||
4086 GTATCTACATAACAATCTCAGTTTACCTCTTAGCCACAAAGCCTAATAATTTTACTAT 4145
Qy 1179 CTAGCCCGTTACAGAAAAGTCTGCTGACTGAGCCAGACC 1221
Db |||||
4146 CTGGCCCTTTATAGAAAAAGTTTCCCTGACCTCTGCCCTAGAGC 4188

Search completed: November 29, 2004, 14:40:49
Job time : 1294 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 11585 seconds
(without alignments)
11241.764 Million cell updates/sec

Title: US-09-989-920-100
Perfect score: 2754
Sequence: 1 gccagagcctcagctt.....aaaaataaaagatgccc 2754

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: gb_ba:*
2: gb_hcg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match, Length, DB ID, Description. Contains 19 rows of search results.

Table with columns: C, 20-45, 77-88, 2.8-58.6, AX535073, AX535073, AX535073.1, GI:25261753, Homo sapiens (human), Homo sapiens, Mammalia, Eutheria, Primates, Catarrhini, Hominoidea, Homo, Macina, R.A., Recipon, H., Chen, S.Y., Sun, Y. and Liu, C., Compositions and methods relating to lung specific genes and proteins, Patent: WO 02068633-A 100 06-SEP-2002; Diadexus, Inc. (US), Location/Qualifiers, 1. .2754, /organism="Homo sapiens", /mol_type="unassigned DNA", /db_xref="taxon:9606", AC130435, AC084198, BD274467, AC041040, AL356979, AC092813, AC012517, AC027356, AL022395, AC150610, AC074286, AL049785, AL024907, AL356852, AC068046, AC008660, AL031177, AC150472, AC016134, AC090069, AC009107, AL589842, AY341029, AC010366, AF131217, AC025462

ALIGNMENTS

Table with columns: RESULT 1, LOCUS, DEFINITION, ACCESSION, VERSION, KEYWORDS, SOURCE, ORGANISM, REFERENCE, AUTHORS, TITLE, JOURNAL, FEATURES, ORIGIN, Query Match, Best Local Similarity, Matches 2754, QY, Db, QY, Db, QY, Db, QY. Contains alignment details and sequence information.

Table with columns: QY, Db, QY, Db, QY, Db, QY. Contains sequence alignment data for various databases.

Db 181 CCCCAGAGGCGCAAGGTCTCTAGAGGGGTCTCCACAFNGACTGGCTTCAACACAGGCA 240
 Qy 241 CTTCCGCTCGGGTGTGATCTCTGTGATCATCTTACCGGTCCAGGGTTGCAGGTAGGAAAT 300
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RESULT 2
AC079988/c 211305 bp DNA linear PRI 09-MAR-2002
LOCUS Homo sapiens BAC clone RP11-795C1 from 2, complete sequence.
DEFINITION AC079988
ACCESSION AC079988
VERSION AC079988.6 GI:18873965
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Sulston,J.E. and Waterston,R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE 99063792
PUBMED 9847074
REFERENCE 2 (bases 1 to 211305)
AUTHORS Waligorski,J., Haakenson,W. and Boyer,E.
JOURNAL Unpublished (2001)
TITLE The sequence of Homo sapiens BAC clone RP11-795C1
REFERENCE 3 (bases 1 to 211305)
AUTHORS Waterston,R.H.
JOURNAL Direct Submission
TITLE Submitted (20-SEP-2000) Genome Sequencing Center, Washington
University School of Medicine, 444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE 4 (bases 1 to 211305)
AUTHORS Waterston,R.H.
JOURNAL Direct Submission
TITLE Submitted (23-FEB-2002) Genome Sequencing Center, Washington
University School of Medicine, 444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE 5 (bases 1 to 211305)
AUTHORS Waterston,R.
JOURNAL Direct Submission
TITLE Submitted (09-MAR-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT On Feb 23, 2002 this sequence version replaced gi:18042517.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: sapiens@watson.wustl.edu
----- Summary Statistics
----- Center project name: H_NR0795C01
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NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter, because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
 Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
 The RP11 human BAC library was made from the blood of one male donor, as described by Osogawa, K., Moon, P.Y., Zhao, B., Frengen, E., Tateno, M., Catanese, J.J. and de Jong, P.J. (1998). An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org> and coworkers at <http://www.resgen.com>

NEIGHBORING SEQUENCE INFORMATION:
 The clone sequenced to the left is RP11-60M20, 2000 bp overlap. Actual start of this clone is at base position 1 of RP11-795C1; actual end is at base position 111002 of RP11-6906.

Single plasmid region exists between 76851 and 76869. Polymorphisms exist between AC067960, AC013399 and AC079988. Data from AC067960 and AC013399 was used to finish AC079988.

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Best Local Similarity 99.8%; Pred. No. 0;
Matches 2722; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 89776 GAGAGCTCTGTAAACCCCGCTTAGCTTCCAGACTTTTGCAAAAGTCTCTCTGGCTT 89717

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QY 841 ACAACATCTCAGCTCCCGCAGCCCTCATCTGTATCAGCACTTACCGTGTGACTGCC 900
Db 89356 ACAACATCTCAGCTCCCGCAGCCCTCATCTGTATCAGCACTTACCGTGTGACTGCC 89297

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88156 Db ||||| GTGTTCTGGCATTGGTTCAGCTTCTCACTCGATCCCTCCCTAAAGCAATGGGGAGCCGCC 88097
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2701 QY ||||| TGCAATAAATACTCAATTTGTAAGAA 2728
87496 Db ||||| TGCAATAAATACTCAATTTGTAAGAA 87469

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DEFINITION SEQUENCE, 4 unordered pieces.
ACCESSION AC140107
VERSION AC140107.1 GI:28460978
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 25203)
AUTHORS Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N.,
Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T.,
Boguslavskiy, L., Boukhgalter, B., Camarata, J., Chang, J., Choepel, Y.,
Collamore, A., Cook, A., Cooke, P., Corum, B., DeArellyano, K.,

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1981 QY ||||| CAGTTCCTTCTTCTGCTAGTAAACAGTAGTAGCAGCTGGGGCTTACAGGCTAGGCTTT 2040

Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Fatro, S., Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gargyala, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., Lui, A., Mabbitt, R., MacLean, C., Macdonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M., Meldrum, J., Menius, L., Minova, I., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupbach, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission
Submitted (21-FEB-2003) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: <http://www-seq.wi.mit.edu>
Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information
Center project name: L29363
Center clone name: L201_C_10

----- Summary Statistics
Sequencing vector: Plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 223547 bases at least Q40
Consensus quality: 224174 bases at least Q30
Consensus quality: 224530 bases at least Q20
Insert size: 221000; agarose-fp
Quality coverage: 14.9 in Q20 bases; agarose-fp
Quality coverage: 14.6 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

* 1 46920: contig of 46920 bp in length
* 46921 47020: gap of 100 bp
* 47021 51090: contig of 4070 bp in length
* 51091 51190: gap of 100 bp
* 51191 163725: contig of 112535 bp in length
* 163726 163825: gap of 100 bp
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ORIGIN							
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QY	121	GAGTGTGATCAGCTGCTGGCTTGTGATCTTCTAGACAGTGTAAATTCACATCGCGGATCT	180				
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misc_feature
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 Qy 1921 GCTTGTCCAGCTCTGTGACCCCTGGTGTCTTCACTCCAGGGGACAGCAGCCACTG 1980
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 VERSION AX535064.1 GI:25261735
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Macina, R.A., Recipon, H., Chen, S.Y., Sun, Y. and Liu, C.
 TITLE Compositions and methods relating to lung specific genes and proteins
 JOURNAL Patent: WO 02068633-A 91 06-SEP-2002;
 Diadexus, Inc. (US)
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ORIGIN

Query Match 87.1%; Score 2397.4; DB 6; Length 2399; Best Local Similarity 100.0%; Pred. No. 0; Matches 2398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Table with 4 columns: Qy, Db, Qy, Db. It contains sequence alignment data for two different queries, with Qy and Db labels alternating for each sequence. The sequences are represented by letters A, C, G, T and dashes (-) for gaps.

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RESULT 8
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 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
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 REFERENCE 1
 AUTHORS Macina,R.A., Recipon,H., Chen,S.Y., Sun,Y. and Liu,C.
 TITLE Compositions and methods relating to lung specific genes and proteins
 JOURNAL Patent: WO 02068633-A 99 06-SEP-2002;
 Diadexus, Inc. (US)
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*	36509	Contig of 807	bp in length
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*	37415	Contig of 847	bp in length
*	38262	Gap of 100 bp	bp in length
*	38362	Contig of 851	bp in length
*	39213	Gap of 100 bp	bp in length
*	39313	Contig of 853	bp in length
*	40166	Gap of 100 bp	bp in length
*	40266	Contig of 857	bp in length
*	41123	Gap of 100 bp	bp in length
*	41223	Contig of 854	bp in length
*	42077	Gap of 100 bp	bp in length
*	42177	Contig of 849	bp in length
*	43026	Gap of 100 bp	bp in length
*	43126	Contig of 885	bp in length
*	44011	Gap of 100 bp	bp in length
*	44123	Contig of 832	bp in length
*	44943	Gap of 100 bp	bp in length
*	45043	Contig of 838	bp in length
*	45881	Gap of 100 bp	bp in length
*	45981	Contig of 830	bp in length
*	45982	Gap of 100 bp	bp in length
*	46812	Contig of 816	bp in length
*	46912	Gap of 100 bp	bp in length
*	47728	Contig of 809	bp in length
*	47828	Gap of 100 bp	bp in length
*	48637	Contig of 835	bp in length
*	48737	Gap of 100 bp	bp in length
*	48737	Contig of 835	bp in length
*	49572	Gap of 100 bp	bp in length
*	49672	Contig of 850	bp in length
*	50522	Gap of 100 bp	bp in length
*	50622	Contig of 857	bp in length
*	51478	Gap of 100 bp	bp in length
*	51479	Contig of 850	bp in length
*	51579	Gap of 100 bp	bp in length
*	52429	Contig of 862	bp in length
*	52529	Gap of 100 bp	bp in length
*	53391	Contig of 844	bp in length
*	53491	Gap of 100 bp	bp in length
*	54334	Contig of 839	bp in length
*	54434	Gap of 100 bp	bp in length
*	54535	Contig of 839	bp in length
*	55273	Gap of 100 bp	bp in length
*	55373	Contig of 837	bp in length
*	55374	Gap of 100 bp	bp in length
*	56210	Contig of 837	bp in length
*	56211	Gap of 100 bp	bp in length
*	56310	Contig of 838	bp in length
*	56311	Gap of 100 bp	bp in length
*	57149	Contig of 831	bp in length
*	57248	Gap of 100 bp	bp in length
*	58079	Contig of 825	bp in length
*	58179	Gap of 100 bp	bp in length
*	58180	Contig of 825	bp in length
*	59005	Gap of 100 bp	bp in length
*	59105	Contig of 806	bp in length
*	59911	Gap of 100 bp	bp in length
*	60011	Contig of 829	bp in length
*	60839	Gap of 100 bp	bp in length
*	60939	Contig of 845	bp in length
*	60940	Gap of 100 bp	bp in length
*	61788	Contig of 851	bp in length
*	61884	Gap of 100 bp	bp in length
*	62735	Contig of 851	bp in length
*	62835	Gap of 100 bp	bp in length
*	62836	Contig of 851	bp in length
*	63687	Gap of 100 bp	bp in length
*	63787	Contig of 842	bp in length
*	64629	Gap of 100 bp	bp in length
*	64728	Contig of 843	bp in length
*	64729	Gap of 100 bp	bp in length

Query Match 29.2%; Score 803; DB 2; Length 88036;
 Best Local Similarity 100.0%; Pred. No. 1.9e-188;
 Matches 803; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 861 CCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCGCTTCTCAGTAGCATACGGT 920
 Db 82558 CCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCGCTTCTCAGTAGCATACGGT 82617

/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 22.2%; Score 612.4; DB 6; Length 960;
Best Local Similarity 99.4%; Pred. No. 4e-141;
Matches 646; Conservative 0; Mismatches 1; Indels 3; Gaps 3;

QY 1658 GTACCTGGGACGACGAGACCTTTGGCTTCTGGAGCCCTGCAAGCCTCTTCCCATGTG 1717
DB 41 GTACCTGGGACGACGAGACCTTTGGCTTCTGGAGCCCTGCAAGCCTCTTCCCATGTG 100
QY 1718 TCCAGCTCTCTCCCTGCTCAAAAGGGGACTGCTCACAGTGGCTCAGCTTGGTGGT 1777
DB 101 TCCAGCTCTCTCCCTGCTCAAAAGGGGACTGCTCACAGTGGCTCAGCTTGGTGGT 160
QY 1778 GAGGGCCGCCCCCGCCCTCCAPAAAGGGTATCTGGGCTGAGAAFTTGCAPCTGCC 1837
DB 161 GAGGGCCGCCCCCGCCCTCCATAAGGGTATCTGGGCTGAGAAFTTGCAPCTGCC 220
QY 1838 ATTGGAGATGGACAGCCTCAAAATGGAGAGTCCCAGGGAGATGGTCCGAGGTCGG 1897
DB 221 ATTGGAGATGGACAGCCTCAAAATGGAGAGTCCCAGGGAGATGGTCCGAGGTCGG 280
QY 1898 CTGTGGCCATCAGCCCTGTGGCTTGTCCAGGCTCTGTGCACCCCTGTGTCTTCACT 1957
DB 281 CTGTGGCCATCAGCCCTGTGGCTTGTCCAGGCTCTGTGCACCCCTGTGTCTTCACT 340
QY 1958 CCAGGGGACAGACAGCAGCAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 2017
DB 341 CCAGGGGACAGACAGCAGCAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 400
QY 2018 CTGGGGCTAAACAGGCTAGGCTTGTGTTCTGGCAATTTGGTCACTCTCACTCGATCCT 2077
DB 401 CTGGGGCTAAACAGGCTAGGCTTGTGTTCTGGCAATTTGGTCACTCTCACTCGATCCT 460
QY 2078 CCTAAAGCAATGGGGAGCCCACTAGCCAGTCTTTCAGGAAGTCAACTGGAGGTTA 2137
DB 461 CCTAAAGCAATGGGGAGCCCACTAGCCAGTCTTTCAGGAAGTCAACTGGAGGTTA 520
QY 2138 GATGGGGCCAGGGTCCACACA-GTACTGATGGCCGAGGCTGAGCTTCTCTGTTGT 2196
DB 521 GATGGGGCCAGGGTCCACACA-GTACTGATGGCCGAGGCTGAGCTTCTCTGTTGT 580
QY 2197 CCAGTCCGGAT-CCACATTCAGATCTCATCTCTCAGATAGTGGGACAAAGTCTTTTG 2255
DB 581 CCAGTCCGGATCCACATTCAGATCTCATCTCTCAGATAGTGGGACAAAGTCTTTTG 640
QY 2256 TCACAGTCTGG-CTCTCTCTAGGCTCAATTCCTGGCTGGGCTGCTC 2304
DB 641 TCACAGTCTGGCTCTCTCTAGGCTCAATTCCTGGCTGGGCTGCTC 690

RESULT 9
LOCUS CQ522682
DEFINITION Sequence 54549 from Patent WO0160860.
ACCESSION CQ522682
VERSION CQ522682.1 GI:41486946
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

JOURNAL Schlegel, R., Endege, W.O. and Monahan, J.E.
TITLE Genes differentially expressed in human prostate cancer and their use
MILLIENNIUM PREDICTIVE MEDICINE, INC. (US)
PATENT: WO 0160860-A 54549 23-AUG-2001;
LOCATION/QUALIFIERS
SOURCE

/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 20.1%; Score 554; DB 6; Length 611;
Best Local Similarity 99.5%; Pred. No. 1.4e-126;
Matches 565; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1194 AAAGTCTCTGACTACTGAGCCAGCCTCCATTAACCTCCATCCCTGTGATTTAA 1253
DB 44 AAAGTCTCTGACTACTGAGCCAGCCTCCATTAACCTCCATCCCTGTGATTTAA 103
QY 1254 AGAAAGCCCTCAGACAGTAAGGC-TTTTTAAAGAAATAAAATGACTTGGCTTGG 1312
DB 104 AGAAAGCCCTCAGACAGTAAGGCCTTTTTTAAAGAAATAAAATGACTTGGCTTGG 163
QY 1313 GAAGCAGGGGAAGCAFTTCAGATGAGGGTTCAGATTAACCTCCCTATCACGGATCTC 1372
DB 164 GAAGCAGGGGAAGCAFTTCAGATGAGGGTTCAGATTAACCTCCCTATCACGGATCTC 223
QY 1373 GTCTCTGTGTGGCTGGCGAGCCCTTGGAAAGTTCCTGATTCAGCTGGCTCCCTGC 1432
DB 224 GTCTCTGTGTGGCTGGCGAGCCCTTGGAAAGTTCCTGATTCAGCTGGCTCCCTGC 283
QY 1433 AGAGTCCACCCCTGCTGTGGGAATGCAGAGCCCTTGTCTTCTTTCGGCCCTG 1492
DB 284 AGAGTCCACCCCTGCTGTGGGAATGCAGAGCCCTTGTCTTCTTTCGGCCCTG 343
QY 1493 CTTCTGTCTGGGAGCCCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGG 1552
DB 344 CTTCTGTCTGGGAGCCCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGG 403
QY 1553 GFTATAGTGGTGGGAAGGACTTTTGGAGAGTGGGGAGCAGTGGCCCTCTTGGCCAGCT 1612
DB 404 GFTATAGTGGTGGGAAGGACTTTTGGAGAGTGGGGAGCAGTGGCCCTCTTGGCCAGCT 463
QY 1613 CACACTTGTCTGGGAGCCCTGATCTCACTCCACTTCCACTTGGGAGCTG 1672
DB 464 CACACTTGTCTGGGAGCCCTGATCTCACTCCACTTCCACTTGGGAGCTG 523
QY 1673 AGGACCTTTGGCTTCTCTGGAGCCCTGCAAGCCTCTTCCATGTGCCAGTCTTCC 1732
DB 524 AGGACCTTTGGCTTCTCTGGAGCCCTGCAAGCCTCTTCCATGTGCCAGTCTTCC 583
QY 1733 TGTCTCAAAGGGGACTGCTCAGATGGC 1760
DB 584 TGTCTCAAAGGGGACTGCTCAGATGGC 611

RESULT 10
LOCUS AX262096
DEFINITION Sequence 176 from Patent WO0172781.
ACCESSION AX262096
VERSION AX262096.1 GI:16511048
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

JOURNAL Williams, L.T., Escobedo, J., Innis, M.A., Garcia, P.D., Sudduth-Klinger, J., Reinhard, C., He, Z., Randazzo, F., Kennedy, G.C., Pot, D., Kassam, A., Lamson, G., Drmanac, R., Crkvenjakov, R., Dickson, M., Drmanac, S., Labat, I., Leskowitz, D., Kita, D., Garcia, V., Jones, J.L.W. and Stache-Crain, B.
PATENT: WO 0172781-A 176 04-OCT-2001;
LOCATION/QUALIFIERS
SOURCE

ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Williams, L.T., Escobedo, J., Innis, M.A., Garcia, P.D., Sudduth-Klinger, J., Reinhard, C., He, Z., Randazzo, F., Kennedy, G.C., Pot, D., Kassam, A., Lamson, G., Drmanac, R., Crkvenjakov, R., Dickson, M., Drmanac, S., Labat, I., Leskowitz, D., Kita, D., Garcia, V., Jones, J.L.W. and Stache-Crain, B.
MILLIENNIUM PREDICTIVE MEDICINE, INC. (US)
PATENT: WO 0172781-A 176 04-OCT-2001;
LOCATION/QUALIFIERS
SOURCE

AmpliTaq Gold Polymerase: 0.07 units/ul
Total Vol: 5 ul

Buffer:
MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 10 mM
pH: 8.3

Prepared with primer pairs derived from W86076 -- Unigene.
Location/Qualifiers
1..406

FEATURES
source
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/map="2"
/closure_lib="Human"
STS
primer_bind 100..119
primer_bind complement(182..201)
ORIGIN

Query Match 9.5%; Score 261.2; DB 11; Length 406;
Best Local Similarity 89.2%; Pred. No. 1.1e-53;
Matches 347; Conservative 0; Mismatches 33; Indels 9; Gaps 6;
QY 630 TTTCTGCTCCTGTGCAGGCAGCTGATGG-ATAAGGTGGGGAAGACGG--TCAGTGT 686
Db 387 TTNCTCCCTGTGCAGGCAGCTGATGG-ATAAGGTGGGGAAGACGG--TCAGTGT 686

QY 687 TGGGCCCCAGCTGGCC--AGCCTGGCGATGGGAAACCAAACCATGTCCCCAGCGAAGG 744
Db 327 TGGCCCCNAGCTGNCAGCCTGGCGGATGGGAAACCAAACCATGTCCCCAGCGAAGG 744
QY 745 GCAGAGTGGGAACCTGTCTCATGCCCTTCCTCTGAGGAGCCCTGAGGTGGGCGAG 804
Db 267 GCAGAGTGGGAACCTGTCTCATGCCCTTCCTCTGAGGAGCCCTGAGGTGGGCGAG 804

QY 805 GGGCCAGGGAAAGTTTTCAGGCTTCATCAAAGAGAACAACATCC-TCAGTCCCAACC 863
Db 207 GGGCCAGGGAAAGTTTTCAGGCTTCATCAAAGAGAACAACATCCGTCAGTCCCAACC 863
QY 864 CTC-ATCCGTATCAGCACTTACCGGTGTGACCTGCCCTGTGACAGTACAGTACGG 922
Db 147 CTCGATCTGTATCAGCACTTACCGGTGTGACCTGCCCTGTGACAGTACAGTACGG 922

QY 923 GGGCCAGGGAAAGTTTTCAGGCTTCATCAAAGAGAACAACATCC-TCAGTCCCAACC 982
Db 89 NGCCCACTGNCACCTGGCTGTTTATGCCACTGATTTATGATAGGAAATATTCTTTGA 982
QY 983 ACCCAATGAAGTGTTCCTCCCAATCAC 1011
Db 29 ACCCAATGAAGTGTTCCTCCCAATCAC 1011

ORIGIN
Query Match 13.0%; Score 357.4; DB 6; Length 395;
Best Local Similarity 96.9%; Pred. No. 1.2e-77;
Matches 375; Conservative 0; Mismatches 11; Indels 1; Gaps 1;

QY 1216 CAGACCTCCATTACTCCATCCCTGTTGGATTATTAAAGAAAGCCCTCAGACAGTAAGGG 1275
Db 9 CAGACCTCCATTACTCCATCCCTGTTGGATTATTAAAGAAAGCCCTCAGACAGTAAGGG 68

QY 1276 C-TTTTTTAAAGAAATAAATGACTTGGTTTGCCTTGGAAAGCAGGGAAGCAATTCAGAT 1334
Db 69 CTTTTTTTTAAAGAAATAAATGACTTGGTTTGCCTTGGAAAGCAGGGAAGCAATTCAGAT 128

QY 1335 GAGGGTTTCTGCATTAACCCCTGCTATCAGGCATCTGCTCCCTGCTGCGGCGAGC 1394
Db 129 GAGGGTTTCTGCATTAACCCCTGCTATCAGGCATCTGCTCCCTGCTGCGGCGAGC 188

QY 1395 CCCCCTTGGAAAGTTCTGGTCTTCAGCTGCTCCTGCAGAGTCCACCCGCTCGTGGT 1454
Db 189 CCCCCTTGGAAAGTTCTGGTCTTCAGCTGCTCCTGCAGAGTCCACCCGCTCGTGGT 248

QY 1455 GGGATGCAGAGCCCTTGTCTTCTTCCCTTCCCTGCTTCCCTGCTGGGACCCGC 1514
Db 249 GGGATGCAGAGCCCTTGTCTTCTTCCCTTCCCTGCTTCCCTGCTGGGACCCGC 308

QY 1515 TGGGCTTGTGCTGCAATCCCTGCCAGGTCCTCAGGTTGATGCGTAGAAGGACT 1574
Db 309 TGGGCTTGTGCTGCAATCCCTGCCAGGTCCTCAGGTTGATGCGTAGAAGGACT 368

QY 1575 TTGAGCAGTGGTGGCAGCAGTGGCCT 1601
Db 369 TTGAGCAGTGGTGGCAGCAGTGGCCT 395

RESULT 11
G38425/c
LOCUS G38425 406 bp DNA linear STS 23-JUN-1998
DEFINITION SHGC-58087 Human Homo sapiens STS genomic, sequence tagged site.
ACCESSION G38425
VERSION G38425.1 GI:3249199
KEYWORDS STS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Myers,R.M.
Human STSs (1998)
Unpublished (1998)

Contact: Richard M. Myers
Stanford Human Genome Center (SHGC)
Stanford University School of Medicine
Department of Genetics, M-344, Stanford, CA 94305, USA
Tel: 4157259687
Fax: 4157259689
Email: myers@shgc.stanford.edu
Primer A: AGCTGACAAGGGCAGTCACA
Primer B: GGGGAAGTTTCAGGCGTTC
STS size: 102
PCR Profile:
Initial incubation: 95 degrees C for 10 minutes
Denaturation: 94 degrees C for 30 seconds
Annealing: 60 degrees C for 30 seconds
Polymerization: 72 degrees C for 23 seconds
PCR Cycles: 30
Thermal Cycler: Perkin Elmer 9700

Protocol:
Template: 25 ng
Primer: each 1 uM
dNTPs: each 200 uM

RESULT 12
AX335063/c
LOCUS AX335063 251 bp DNA linear PAT 22-NOV-2002
DEFINITION Sequence 90 from Patent WO02068633.
ACCESSION AX335063
VERSION AX335063.1 GI:25261733
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Macina,R.A., Recipon,H., Chen,S.Y., Sun,Y. and Liu,C.
TITLE Compositions and methods relating to lung specific genes and
JOURNAL Patent: WO 02068633-A 90 06-SEP-2002;
Diadexus, Inc. (US)
FEATURES Location/Qualifiers

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source
1. .251
/organism="Homo sapiens"
/ncbi_taxonomy="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 8.1%; Score 224.4; DB 6; Length 251;
Best Local Similarity 98.8%; Pred. No. 1.6e-44;
Matches 237; Conservative 1; Indels 2; Gaps 1;

QY 2381 CTCCCGGTCGGTGGGAGACCGGTTACTGTGTTCTCTAATGTTCTATGTAATTTAAAT 2440
DB 251 CTTCCCGGTCGGTGGGAGACCGGTTACTGTGTTCTCTAATGTTCTATGTAATTTAAAT 192
QY 2441 GATTTCTTTCTAAGATGTAACCTCCACACCTTTCTCCAGATTCGGTGACCTTTTCTAA 2500
DB 191 GATTTCTTTCTAAGATGTAACCTCCACACCTTTCTCCAGATTCGGTGACCTTTTCTAA 132
QY 2501 AGTGGTGGAGTACTCTGTGGGGTGGTGGCCCTTGGATGGTGGTGGTGGTGGAGA 2560
DB 131 AGTGGTGGAGTACTCTGTGGGGTGGTGGCCCTTGGATGGTGGTGGTGGTGGAGA 72
QY 2561 GGTCTCTGGGGAGT--GGCCGTGAGCTCAAAGTGTCTCTACTGCCATGTTTGTACTCT 2618
DB 71 GGTCTCTGGGGAGTGGCCGGTGTGAGCTCAAAGTGTCTCTACTGCCATGTTTGTACTCT 12

RESULT 13
ACI34136/c
LOCUS
DEFINITION
Rattus norvegicus clone CH230-298J1, *** SEQUENCING IN PROGRESS
ACI34136
ACI34136.2 GI:25138971
HTG: HTGS PHASE1; HTGS DRAFT; HTGS ENRICHED.
KEYWORDS
Rattus norvegicus (Norway rat)
ORGANISM
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 190379)
Muzny,D,Marie., Metzker,M,Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alshrooks,S., Amin,A., Anquiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Balwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Bahay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleaveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B.S., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebrgeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevata,W.,
Gunaratne,P., Haaland,W., HAMIL,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M.,
Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,
Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpatiy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowalski,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorenshewa,L., Loulseged,H., Lozado,R.J., Lu,X., Ma,J.,
Mamshwari,M., Mahindarcne,M., Mahmood,M., Malloy,K., Mangun,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhinney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
Morgan,M., Morris,K., Morris,S., Munidasa,M., Murphy,M., Nair,D.,
Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,
Nwaoketeme,O., Okwuonu,G., Olarpunpangoon,A., Pal,S., Parks,K.,

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Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C.,
Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
Puzo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,
Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J., Shen,H.,
Sanders,W., Savery,G., Scherer,S., Scott,G., Shatman,S., Shen,H.,
Shety,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D.,
Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steinle,M., Strong,R., Sutton,A., Svatek,A., Tabot,P., Taylor,C.,
Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K.,
Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wlarczyk,R., Wooden,H., Worley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 190379)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (23-SEP-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 190379)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (20-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 20, 2002 this sequence version replaced gi:23269326.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with 'N' to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: KCCX
Center clone name: CH230-298J1
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 169342 bases at least Q40
Consensus quality: 171971 bases at least Q30
Consensus quality: 174193 bases at least Q20
Estimated insert size: 172482; sum-of-contigs estimation
Quality coverage: 5x in Q20 bases; sum-of-contigs estimation
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 14191: contig of 14191 bp in length
* 14192 14291: gap of unknown length
* 14292 190379: contig of 176088 bp in length.

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TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

```

FEATURES
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 1. 190379 Location/Qualifiers
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 /mol_type="genomic DNA"
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 /clone="CH230-298J1"
 misc_feature
 1. 1314
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 12712. 14191
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 misc_feature
 113270. 115130
 /note="wgs contig"
 misc_feature
 complement(170214..171114)
 /note="clone boundary
 clone_end:Sp6
 site:
 end_sequence:BZ129373"
 186833. 188023
 /note="wgs end extension
 clone_end:Sp6"
 misc_feature
 189278. 190379
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ORIGIN

Query Match 3.2%; Score 87.6; DB 2; Length 190379;
 Best Local Similarity 65.6%; Pred. No. 2.9e-10;
 Matches 269; Conservative 0; Mismatches 99; Indels 42; Gaps 8;

Qy 2304 CTGCTGGAAAAGCTTTGCGGGTTCGTTGGTTAAACACAGAGAAGGGGACTGTTT 2363
 Db 5492 CTGCTGGGAGAGCTTAGTGGGGC-----TAGTATCAGACACAGCAAAGGACTGTTT 5438

Qy 2364 GGGTGCCTCTCGACGCCCTCCCGTGTGGTGGAGCAGCGTACTGTCTCTCAAT 2423
 Db 5437 CATG---CACTGACTTATCTCTCCCTGGTAAAGCCTGGTACTGTGTTCTTCAAT 5391

Qy 2424 GTTCATGTAATTAAGTAATTCCTTTCTAAAGATGTAACCTCCACACTTTTCCAGATT 2483
 Db 5380 GCTTCGAAGTATCTCCAGGTTTTTCACAC-----CCTACCTTCTCCCTAGGTG 5329

Qy 2484 GGGTGCCTCTTTCTAAAGTGGTGGAGTATCTGCGGGTGTGGCCCTGGATG 2543
 Db 5328 GGGTAATTCCTTTCTAAAGTGGTGGAGTATCTGCGGGTGTGGCCCTGGATG 5277

Qy 2544 GTCAGTGGTGTGAGAGCTCTGGGAGTGGGGTGT---GAGCTCAAAGTTGTCTACTG 2602
 Db 5276 GTCAAAATGTGTAGCAGTCTATGGGAGGGGCGCATGGAACCCAAAGTTGTCATATG 5217

Qy 2603 CCATGTTTTGTACTGAAAATAAGCAATTTTGCACCTGTTACTGTACCAATGTCGGA 2662
 Db 5216 CCATGTTTTGTACTGAAAATAAGCAATTTTGCACCTGTTAA-----A 5173

Qy 2663 CGAGAGCTCTATGCTGGGATCTGTGCTGGTTAGATGCAATAAACA 2712
 Db 5172 TGAGAAATCTGTATGTGGCTCTGTGC-TGGGTGAGAAATGCATAAACA 5124

RESULT 14
 AC136817
 LOCUS
 DEFINITION Rattus norvegicus clone CH230-4384, *** SEQUENCING IN PROGRESS ***
 2 unordered pieces.
 ACCESSION AC136817
 VERSION AC136817.2 GI:25188334
 KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE
AUTHORS

1 (bases 1 to 231580)
 Muzny, D. Marie., Metzker, M. Lee., Abramzon, S., Adams, C., Alder, J.,
 Allen, C., Allen, H., Alebrooks, S., Amin, A., Anguiano, D.,
 Anylabebech, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, R.,
 Balwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Behnam, F.,
 Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
 Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E.,
 Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A.,
 Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J.,
 Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
 Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dedeich, D.,
 Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
 Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
 Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G.,
 Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
 Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
 Gebregorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
 Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K.,
 Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,
 Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogues, M.,
 Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A.,
 Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
 Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
 Kwis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
 Liu, J., Liu, W., Liu, X., London, P., Longacre, S., Lopez, J.,
 Lorensuhewa, L., Louisegh, H., Lozado, R. J., Lu, X., Ma, J.,
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 Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E.,
 Mahoney, S., McLeod, M. P., McNeill, T. Z., Meenen, E.,
 Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
 Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
 Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Parks, K.,
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 Puzo, M., Quicoz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R.,
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 Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajs, D.,
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 Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J.,
 Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
 Williams, G., Willson, R., Wlarczyk, R., Wooden, H., Worley, K.,
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 Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
 Niederhausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O.,
 Weinstein, G. and Gibbs, R. A.
 Direct Submission
 Unpublished

REFERENCE
AUTHORS

2 (bases 1 to 231580)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (08-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 231580)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (23-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Nov 23, 2002 this sequence version replaced gi:24796690.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence

REFERENCE
AUTHORS

REFERENCE
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 COMMENT

contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: KCLR
Center clone name: CH230-43B4
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 204259 bases at least Q40
Consensus quality: 209008 bases at least Q30
Consensus quality: 211699 bases at least Q20
Estimated insert size: 211394; sum-of-contigs estimation
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 230160: contig of 230160 bp in length
* 230161 230260: gap of unknown length
* 230261 231580: contig of 1320 bp in length.
----- FEATURES
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/db_xref="taxon:10116"
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/note="clone_boundary
clone_end:T7"
site:EcoRI
end_sequence:BH263050"
229121..230160
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clone_end:T7"
----- ORIGIN
Query Match 3.2%; Score 87.6; DB 2; Length 231580;
Best Local Similarity 65.6%; Pred No. 2,9e-10;
Matches 269; Conservative 0; Mismatches 99; Indels 42; Gaps 8;

QY 2424 GTTCATGTTTAAATGATTTCTTAAAGATGTAACCTCCACACCTTCTCCAGATT 2483
Db 225408 GCTTCGAAGTACTCTGAGGTTTCTCACA-----CCTACCTTCTCTCTAGG 225459
QY 2484 GGCTGACTTTTTCTAAAGGTGGTGGAGTATCTGTGGGGTGGTGGCCCTTGGATGG 2543
Db 225460 GGGTAATCTTTCTAAAGTGGTAGGG-ATTCTGGGGGGTGGTCCA-----GATTG 225511
QY 2544 GTACGTTGGTGTGACAGGCTCTGGGAGTGGGGTT-GAGCTCAAAGTTTCTCTACTG 2602
Db 225512 GTCAAATGTGTGTAGCAGGTCATGGGGAAGGGGGCCATGGAAACCAAGTTGTCAATG 225571
QY 2603 CCATGTTTTGTACCTGAAATAAAGCATATTTTGGCACTGTGTACTGTACCATAAGTGGCGA 2662
Db 225572 CCATGTTTTGTACCTGAAATAAAGCATATTTTGGCACTGTAA-----A 225615
QY 2663 CGAAGTCTGTATGTTGGGATCTGTGCTTGGGTTAGATGCAAAATAAAMAC 2712
Db 225616 TGAGAAATCTGTATGGGCTCTGTGC-TGGGTCAAGATGCAATAAATAAAC 225664

RESULT 15

CNSOLID77 182643 bp DNA linear PRI 14-MAY-2001
LOCUS Human chromosome 14 DNA sequence BAC R-131H24 of library RFCI-11
DEFINITION from chromosome 14 of Homo sapiens (Human), complete sequence.
ACCESSION AL132642
VERSION AL132642.4 GI:14041778
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 182643)
AUTHORS Heilig, R., Petit, J.-L., Vico, V., Dasilva, C., Robert, C., Wincker, P.,
Brottier, P., Cattolico, L., Barbe, V., Pelletier, E., Artiguenave, F.,
Levy, M., Eckenberg, R., Bruis, W., deBerardinis, V., Cruaud, C.,
Gyapay, G., Saurin, W. and Weissenbach, J.
Sequencing of the human chromosome 14
Unpublished
REFERENCE 2 (bases 1 to 182643)
Genoscope.
Direct Submission
Submitted (14-MAY-2001) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr
- Web : www.genoscope.cns.fr)
On May 15, 2001 this sequence version replaced gi:8217878.
Center: Genoscope / Centre National de Sequencage
Center code: GS
Web site: http://www.genoscope.cns.fr/
Contact: SeqRef@genoscope.cns.fr

The following BAC sequence is oriented from the T7 to the SP6 end.
Upstream BAC (overlapping the T7 end) : R-187A6
Downstream BAC (overlapping the SP6 end) : R-1089B7 (AC=AL079302)
----- Summary Statistics
Assembly program: Phrap; version 2.0
Quality coverage: 7.83x in Q20 bases; sum-of-contigs

Overall quality chart :
Range : bases
0 :
1 - 9 :
10 - 19 : 11
20 - 29 : 83
30 - 39 : 1023
40 - 49 : 1882
50 - 59 : 4058
60 - 69 : 15227
70 - 79 : 15227

QY 2304 CTGCTGGAAAAGCTTCGGGGCTTGGTTGGTTAAACACAGAGAGAGAGGGGACTGTTT 2363
Db 225296 CTGCTGGGAGAGCTTAGTGGGC-----TAGTATCAGAGACAAGCAAGGAGACTGTTT 225350
QY 2364 GGGGTGCTCTCTCGAGCTCCCGCTGGTGGTGGAGCAGCGGTACTGTCTCTAAT 2423
Db 225351 CATG---CACTGACTTAICTTCTCTGCTGGTAAGGCTTGGTTACTGTCTTCTCAI 225407

Large Blank (uspto)